



Renault Trucks C Cab 2.5m



renewalt-trucks.com



**RENAULT
TRUCKS**

Welcome on board your RENAULT TRUCKS C Cab 2.5 m

You have now taken possession of your new vehicle.

We hope that it brings you all the satisfaction you have the right to expect from it and which was the reason for your choice.

This driver's handbook gives you the information you need to:

- become familiar with your RENAULT TRUCKS vehicle and thus take full advantage of all the technical improvements it incorporates, in the best operating conditions;
- guarantee optimum operation on a permanent basis by the simple but rigorous observation of the service advice;
- resolve minor incidents not requiring input from a specialist without losing too much time.

Renault Trucks

Siret 954 506 077 00 120 - RCS LYON B 954 536 077

The manufacturer reserves the right to make any modifications deemed necessary during production. This Driver's Handbook should therefore not be considered as a standard specification for the model in question.

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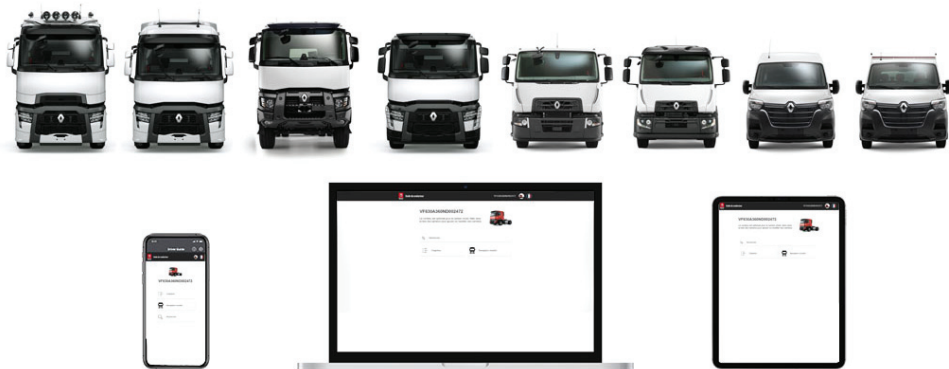


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Access to the Driver Guide



To use the Driver Guide:

- Go to:
<https://driverguide.renault-trucks.com/>
- or
- scan the QR code to find the driver guide app.
- or
- search for "...Renault Trucks Driver Guide" in your app download site.



You will find all the necessary information relevant to your specific Renault Trucks vehicle.

We reserve the right to make changes to this publication in the interests of constantly improving our output. The digital version will always contain the most up-to-date information.



Foreword

Welcome on board your RENAULT TRUCKS vehicle

The few moments you spend reading this handbook will be amply repaid by what you learn from it and the new technical features you will find in it. And if some points are still unclear, our network technicians will be pleased to provide you with any further information you wish to obtain.



Although intended to reflect your vehicle configuration as closely as possible, these instructions can sometimes mention certain options that are not available on this vehicle or images that offer slightly different solutions from those presented on your vehicle.

If in any doubt, please contact the nearest Renault Trucks service point.

Reference language

Our instructions are published in French then translated into your language by professional translators. Translation errors can nevertheless slip into our lines, so, in case of doubt, the French version of the digital Driver Guide will always prevail over all the others.

Reading notes:

The references, digits or letters mentioned in the text refer to two types of illustration:

- *Digits correspond to figures or photos near the text.*
- *Letters, possibly followed by a digit, correspond to the vehicle instrument panel diagram inside this handbook.*

Enjoy driving your RENAULT TRUCKS vehicle!

RENAULT TRUCKS: a cross-border service

RENAULT TRUCKS 24/7 has already been working in Europe for several years.

There are 19 emergency call centres ready to take your calls 365 days a year.

Spare parts homologated by RENAULT TRUCKS meet the requirements of the technical specification and comply with regulations. Only they can bring you:

- the safety of perfect conformity,
- the manufacturer's warranty,
- maintenance of the original specifications and performance.

General operating instructions for commercial vehicles

Whether you are a professional driver, a haulier driving your own wagon or a haulier entrusting the vehicle to one of your company employees, it is essential to follow and ensure the application of the following instructions; they are only a reminder of the basics of the trade and standard professional practice and in no way are to be taken as

exhaustive. In this way you will obtain the maximum benefit from your vehicle and prevent any risk of accidents and incidents.

1. Some basic instructions

- The driver must hold all the necessary licences and should drive only when physically fit and sufficiently rested.
- The vehicle must comply with the regulations in the country or countries in which it is used.
- Any dangerous goods indicator panels must be present and in good condition.
- Loads:
 - total or per-axle weights (regulatory or technical) must not be exceeded,
 - loading and securing of loads must be carried out using conventional procedures. Tarpaulins and side curtains must be correctly stretched and fastened, and doors and sideboards locked, etc.
- In the cab:
 - never carry dangerous products (petrol, trichlorethylene, thinners, etc.),
 - if an animal is carried, it must be kept away from the driving position.
- Access and descent:
 - use the steps and handles provided for this purpose. Never jump out of the vehicle. When descending, watch out for the traffic flow, particularly after a long period of driving,
 - extra care should be taken when weather conditions are bad (rain, snow, ice) or when it is dark.



- **USE IN CLOSED PREMISES:**
 - **NEVER LEAVE THE ENGINE RUNNING IN CLOSED AND/OR POORLY VENTILATED PREMISES. THE EXHAUST GASES CONTAIN HIGHLY TOXIC COMPONENTS. IN CONCENTRATION THEY CAN HAVE VERY SERIOUS EFFECTS ON YOUR HEALTH.**

2. Before getting into the vehicle, check:

- the general condition of your vehicle, visually (as per handbook),
- tyre condition, tyre pressures (including spare wheel), and the absence of any foreign body between the twin wheels,
- cleanliness of windows, windscreen, rear view mirrors, headlights and other lights, number plates,
- operation of regulatory and optional lighting systems,
- correct coupling of trailer or semi-trailer (hook, brake hoses, colour coding, electrical connector, etc),

-
- presence and contents of the on-board tool kit,
 - in winter, the presence of snow chains and that they are securely fastened.
 - that vehicles equipped with side guard panels and beams are permanently provided with this equipment. When removing/refitting, ensure that the locks are correctly locked and tighten the screws moderately.

3. On board

- Check the condition of the non-slip foot pedal covers.
- Ensure that the safety controls (steering wheel, foot pedals, gear lever, etc.) are never cleaned with a slippery product (such as silicone).
- Adjust your driving position,
 - steering wheel: ensure the steering column is locked,
 - seat: ensure it is correctly locked in place,
 - rear view mirrors,
 - seat belt: it is mandatory to wear this; use it,
 - child(ren) on board: comply with the legislation in force.
- Before starting, check:
 - that the gear selector lever is in the Neutral position.
- Check that all instrument panel indications are normal (if in doubt, refer to this driver's handbook).

Digital tachograph

- Check that the driver's card is in tachograph slot 1.
For a second driver, check that his card is in tachograph slot 2.
Check that the tachograph is working properly.

4. When on the road

- If you notice anything abnormal in the vehicle's operation, stop and find the reason. Do not set off again unless you are certain that it represents no serious technical or safety-related threat.
- When driving, the use of some of the standard, optional or added equipment is strictly forbidden (hand-operated sun-roof or hatch, television, on-board telephone, CB, etc.) or is permitted only if you take all the precautions necessary for road safety (cigar lighter, radio manual search function, etc.).
- Adapt your driving style to suit your load (banking or bend, high centre of gravity, etc.), taking account of weather conditions and the time of day.
If necessary, adjust the headlight beam levels.
- Never shut down the engine when the vehicle is moving (this will cut off the power steering and could reduce braking effectiveness).

5. When parking the vehicle

-
- Check that the vehicle is correctly parked (so that it does not obstruct traffic flow or threaten the safety of neighbouring installations).
 - If the vehicle is going to remain stationary for some time, use one or more wheel chocks to prevent it from moving (semi-trailer compressed air leakage, black ice, etc.).
 - Check that:
 - the parking brake is locked and holds the complete vehicle still (test position),
 - the gear selector lever is in the Neutral position,
 - the battery disconnect switch is switched off, depending on vehicle equipment,
 - the electromagnetic retarder is not energised,
 - the air vents are not blocked (independent heating).
 - Do not leave in the cab:
 - important documents (personal documents, vehicle documents, documents related to the load),
 - unattended animals.

6. Moving away uphill

- To prevent the vehicle from rolling backwards when moving away on hills, it is recommended to apply the parking brake.

7. When repairing or servicing the vehicle

- Check the tightness of the wheel nuts according to recommendations.
- Before tilting the cab:
 - ensure that there is enough space at the front of the vehicle,
 - ensure that the parking brake is applied,
 - cordon off a safety perimeter around the cab and ensure that nobody enters this or parks inside it during cab tilt manoeuvres, or while the cab is tilted,
 - stop the engine,
 - put the gear selector lever in the Neutral position,
 - ensure that nothing will fall on the windscreen,
 - empty the refrigerator,
 - close the doors,
 - fully tilt the bull-bar if fitted on the vehicle,
 - open the bonnet/the radiator grille,
 - tilt the cab completely. If partly tilted, chock in place.
- With the engine running:
 - do not go near any moving parts (fan, drive belts, etc.),
 - never disconnect the electrical power (stop the engine first).
- Diesel fuel is flammable: if the fuel filler cap is open, do not smoke, avoid naked flames, and do not use your mobile phone in the vicinity.
- Batteries are filled with acids (risk of serious injury); handle them with care.

-
- If using an external starting aid:
 - use suitable cables,
 - respect polarities.
 - When changing a fuse, replace it with another fuse of the same rating.
 - Additional power lines should only be installed by specialists.
 - The installation of additional air lines requires a technical study carried out or approved by the manufacturer.
 - It is strictly forbidden to heat polyamide hoses (brake circuit pipes).
 - Raising the vehicle with a jack: chock the wheels prior to jacking.
 - Immobilising the vehicle: use one or more wheel chocks as necessary.
 - Wheels and tyres:
 - never check the pressure or inflate/deflate a tyre when hot,
 - never face the wheel when checking the pressure or inflating,
 - when fitting, it is particularly important to ensure that wheels fitted with rim clamps are centred (on Trilex wheels, position the rim clamp at the join of the segments),
 - Roadside repairs: collect all fluids that have been drained (oil, fuel, coolant, etc.).
 - To help protect the environment, comply with the legislation in force (recovery of oil, anti-freeze and cartridges).

When draining oil (engine, gearbox, drive axles), there is a risk of burns (hot oil).

When draining coolant, there is a risk of burns (hot fluid).

- If anti-skid chains are used, the rear wings should be removed, road speed should be reduced and chain tension should be tested at regular intervals.

Any modification, especially to circuits (electrical, electronic or compressed air), can have serious consequences. Such work should only be undertaken with the agreement of the manufacturer. RENAULT TRUCKS declines any responsibility in the event of a non-compliant assembly.

Only genuine RENAULT TRUCKS parts and circuits defined by the manufacturer guarantee quality, safety and reliability.

By observing the above instructions, you will be using your vehicle in the best possible way. However, you must also carefully read the driving handbook and consult the RENAULT TRUCKS network whenever you need any further information.

We remind you that application of the contractual warranty by RENAULT TRUCKS is subject, among other things, to proof by the customer that servicing and maintenance of the vehicle have been carried out according to our recommendations (frequency, operations to be performed, quality of expendable and consumable products guaranteed by genuine certified or recommended spare parts, quality and training of repair mechanics and use of specific tools, etc.). Compliance with these recommendations will also guarantee the long-term reliability of the vehicle.

Servicing and maintenance performed by the RENAULT TRUCKS network will guarantee compliance with these recommendations. If these operations are performed outside our network, the customer must provide formal proof that our recommendations have been observed.

For all maintenance operations, consult a RENAULT TRUCKS garage.

Privacy notice for vehicle data

When you drive a product build by our company, some of the data generated by the vehicle (fuel consumption, road profile, vehicle use profile) could be processed. Such data may include personal data and are processed to develop and offer innovative products and services. We would like you to be fully informed about how we may process that information, as well as your rights. We shall always be transparent about what data are collected, how they are utilized, with whom they are shared, and whom to contact in case of any concerns. Renault Trucks policies are compliant with regulation about personal data protection.

If you would like to know more about Renault Trucks personal data protection policy, please visit the web site – <https://www.renault-trucks.co.uk>

Open Source Software

Your Renault Trucks vehicle contains various software programs. Some of those programs are open source software, which among other things means that you may have the right to gain access to the source code. This depends on the license terms for the respective software, as agreed between Renault Trucks with its affiliated companies and the respective licensors.

For further information about Renault Trucks' use of open source software and about where you can get access to the relevant source code, as well as the applicable copyright notices and developer credits, license terms and legal disclaimers, please visit <https://corporate.renault-trucks.com/en/opensource/>.

Statements of Compliance

Radio-electronic equipment in the vehicle

The following statement applies to all radio-controlled vehicle components, information systems and communication devices integrated into the vehicle:

Vehicle components operated by low and radio frequencies that are standard on RENAULT TRUCKS vehicles comply with the essential requirements and other corresponding paragraphs of the **RED 2014/53/EU**.

Declaration of simplified compliance for the radio

Aptiv Services Deutschland GmbH, 42367 Wuppertal, declares that the radio equipment linked to this vehicle works according to Directive 2014/53/EU.

The complete compliance declaration text is available at the following internet address:
[https:// www.aptiv.com/automotive-homologation](https://www.aptiv.com/automotive-homologation)

Certification of the radio

Frequency bands and output power levels		
Application	Frequency	Maximum power output
AM	153-279 kHz, 522-1611 kHz	-
FM	87.5-108 MHz	-
DAB	174.928-239.200 MHz	-
Bluetooth	2402-2480 MHz	9.5 dBm (9 mW)

Electromagnetic compatibility

The electromagnetic compatibility of the vehicle's components has been tested and approved in compliance with the **ECE-R 10** currently in effect.

Warnings

In this document, the safety instructions are represented as follows:



SAFETY POINT REQUIRING SYSTEMATIC INSPECTION BEFORE PUTTING THE VEHICLE BACK ON THE ROAD. FAILURE TO COMPLY WITH THE PROCEDURE DESCRIBED RISKS CAUSING SERIOUS INJURY OR EVEN DEATH.



Draws attention to special and important points, procedures or regulations in force that must be complied with.

***WARNING!** Any different or inappropriate working method risks causing bodily injury to persons and/or damage to products.*



***NOTE!** Draws attention to particular or important points of the method.*



Locking

Locking

Your vehicle is fitted with central locking. There are several ways to lock or unlock the cabin: the folding key, the remote control, the interior door handle and the dashboard switch

Keys

Write down here your remote control and key codes:

- Ignition:
- Doors:
- Remote control:

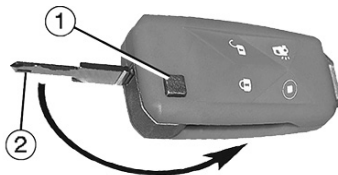
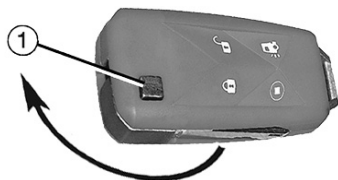
Flip key fob

Opening

Press button (1) to release the key blade.

Closing

Press button (1) and fold key blade (2) back until it locks.



Doors

Opening from the outside

Unlocking using a key in the lock (1).

Pull handle (2) downwards and pull the door.

Closing

Push the door until it engages automatically.

Lock using a key in lock (1).



Opening the door activates the roof lamp.



Opening from the inside

Unlocking:

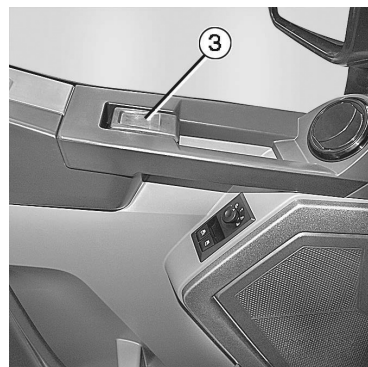
Lift handle (3) and push the door.

Closing:

Pull the door until it engages.

Locking:

With the door closed, tilt handle (3) downwards.

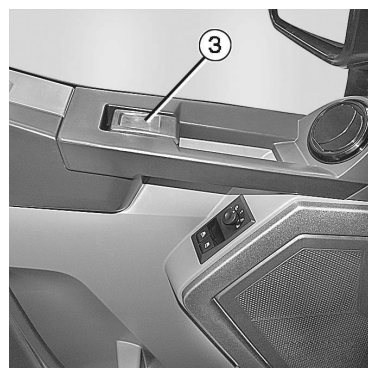


With the door open, handle (3) cannot be tilted downwards.

Central locking from the inside:

Central locking is done:

- Manually, with the doors closed, by pivoting handle (3) downwards,



- using the remote control, with the doors closed, by pressing on button (2) or (3),

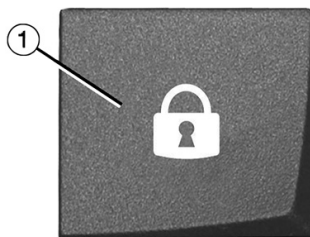


Locking

- using switch (1) on the dashboard.



When the door is open, central locking is neutralised.



Door unlocking

- unlocking of the door on the driver's side by pressing remote control button (1) once,
- unlocking of the door on the passenger side by pressing remote control button (1) again,
- unlocking of a door by turning the key in the lock



With the remote control

Locking the doors only

By pressing locking button (2), the direction indicators flash 4 times.

Two presses in quick succession of locking button (2) closes the windows.



Locking the doors and powering down the vehicle

Press button (3). This action, indicated by 4 flashes of the direction indicators activates:

- lighting of the direction indicators for 1.5 seconds,
- the locking of the doors,
- the closing of the windows,
- switching on the general switch.

Unlocking the doors and powering up the vehicle

Press button (1). This action, indicated by lighting of the direction indicators, activates:

- switching off the master switch,
- the unlocking of the doors.

Protection of the door motors

If you perform the locking and unlocking action 10 times in less than 30 seconds, a protection function will disable the door motors for 30 seconds.



If, during a locking command, the flashing lights do not illuminate (despite them operating normally), this means:

- *that at least one of the doors is not closed properly,*
- *that there is a door locking actuator fault,*
- *that there is a receiver fault. In which case, lock the vehicle using the key.*

Automatic locking

If you unlock the doors using remote control button (1) without opening a door, the vehicle will lock automatically after 30 seconds.



In the event of an accident, the doors will not unlock automatically.



In the event of an attempt at locking with a door open, the closed door will lock then unlock.

Approach lights

Press button (4) once. This activates:

- the illumination of the parking lights,
- the continuous illumination of the direction indicators,
- the illumination of the foot board and the cab lighting.



Press button (4) for a 2nd time to switch off the approach lights.

Interior lighting

The vehicle is equipped with two roof lamps on the header shelf.

The illumination of these lamps is linked to the opening and closing of the doors, the locking and unlocking of the vehicle and finally to the position of the key in the ignition.

- When unlocking the doors via the remote control, the lamps illuminate for a period of 15 seconds.
- When opening a door, the lamps illuminate or remain illuminated, if they were already lit, for a period of 5 minutes.
- After closing the doors, the lamps remain illuminated for approximately 15 seconds.
- Stopping the engine activates illumination of the lamps for a period of approximately 15 seconds.
- Locking the doors causes the lamps to be extinguished immediately.

The illumination or extinguishing of the overhead lights can be forced by their respective switches.

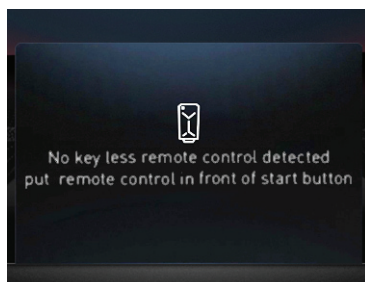
Replacing the battery

If the remote control battery becomes too low, a message will warn you on the main display. So quickly plan to replace this battery.

A message will appear on the main display if the remote control battery power drops too low. Make sure you replace the battery as soon as possible.



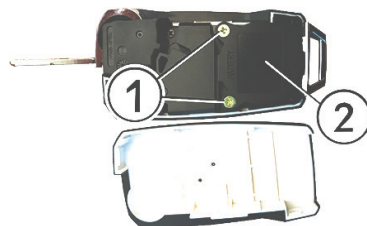
If the remote control battery becomes too weak to be detected by the vehicle, a message will appear on the display advising you to replace it.





If the key is not detected, position it under the start button as described in Starting the engine.

Unscrew the fastener (1) then remove the protective cap (2).



Install new battery (3) by sliding it under the two hooks.

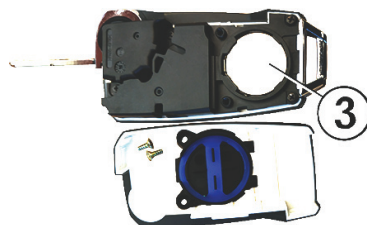
Respect the polarity shown on the battery support.

Press on the battery until the two retaining clips engage.

Reposition the battery cover plate in place and refasten the screws.

Close the casing.

Use an alkaline-type battery: **CR 2032-3V**.



Risk of explosion if the battery is replaced by an incorrect type of battery or if the polarity is not respected.

Dispose of the used battery in a site intended for this purpose.



Do not forget to record your key code. If lost, or if you require another set of keys or remote controls, please contact a RENAULT TRUCKS garage. Provide them with the key codes and vehicle paperwork.



Vehicle exterior

Safe access to the vehicle

How you enter the vehicle is important for guaranteeing your safety.

Whether you need to access your instruments and controls, equipment or the windscreen, always follow these simple rules:

- Always face the vehicle, whether climbing or descending.
- One hand, two feet... One foot, two hands... Always keep at least three limbs in contact with the vehicle.
- Watch where you put your feet and hands.
- If you are using something to assist you climbing onto the vehicle, make sure it is securely in place before putting your weight on it. Surfaces can be slippery!

Cab access



- **Up**
Use all the steps and grab handles provided for this purpose.

- **Down**

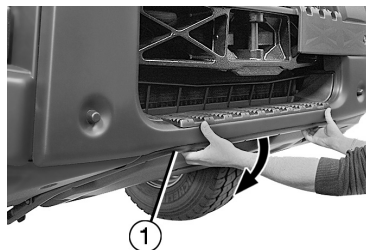
Use all the steps and grab handles provided for this purpose.

Never jump out of the vehicle.

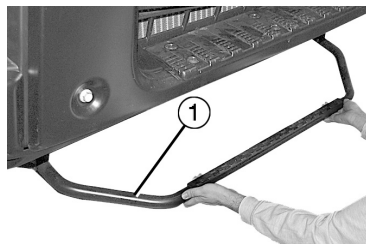
Windscreen access

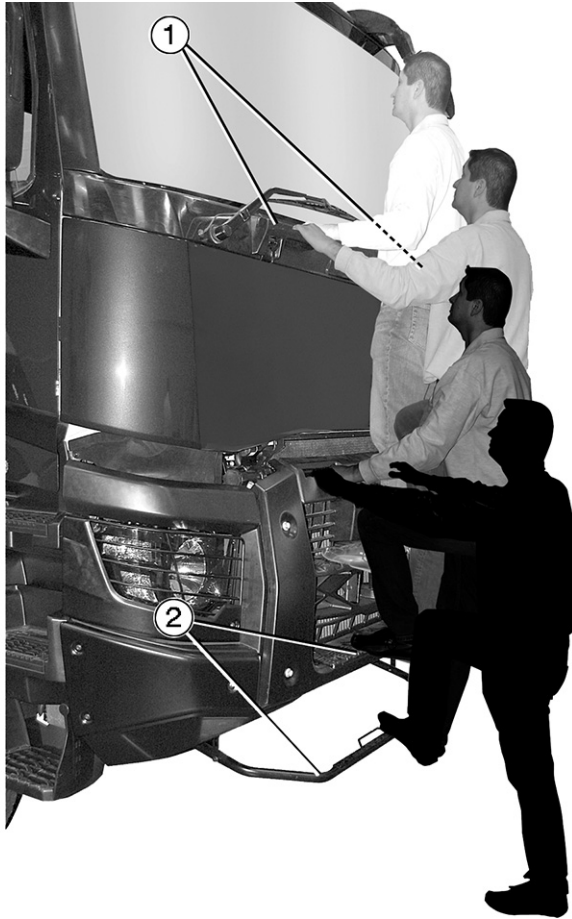
Step

Foot board (1) pivots. It should be in the retracted position while the vehicle is being driven.



Hold foot board (1) while positioning it.





With the windscreen wiper control in the "Off" position, use grab handles (1) and foot boards (2) to gain access to the windscreen.

STOP

IN SOME CASES, THE KEY MAY BE DETECTED BY THE VEHICLE EVEN IF IT IS OUTSIDE LESS THAN ONE METRE FROM THE CAB.

BE CAREFUL, ESPECIALLY WHEN YOU WALK IN FRONT OF THE VEHICLE OR IF YOU ACCESS THE WINDSCREEN AREA - RISK OF UNINTENTIONAL DAMAGE TO CERTAIN SYSTEMS, SUCH AS THE WINDSCREEN WIPERS.

Close foot board (1) after use.



Be careful not to accidentally knock the front anti-collision radar (3) with your leg.



Bonnet

Raising your vehicle's bonnet will give you access to important parts, such as the wiper linkage or the expansion tank.

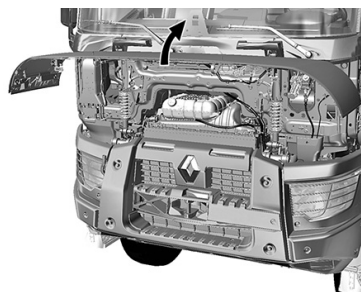
Unlock the bonnet by manipulating the hook (1).



Pull on the lower section of the bonnet to open it. Push it back to close it.

STOP

WHEN WORKING ON THE FRONT END OF THE VEHICLE, WITH THE BONNET OPEN, ENSURE THAT THE WINDSCREEN WIPER CONTROL IS IN THE OFF POSITION. INDEED, IT MAY BE DANGEROUS TO PLACE YOUR HANDS ON THE WINDSCREEN WIPER LINKAGES.



STOP

UNDER CERTAIN CONDITIONS, THE KEY MAY BE DETECTED BY THE VEHICLE, EVEN IF IT IS OUTSIDE, LESS THAN ONE METER FROM THE CABIN. STAY CAUTIOUS, ESPECIALLY WHEN YOU PASS IN FRONT OF THE VEHICLE, OR IF YOU ACCESS THE WINDSHIELD BAY THERE IS A RISK OF SOME SYSTEMS STARTING UP UNEXPECTEDLY, SUCH AS THE WINDSHIELD WIPERS FOR EXAMPLE.

Exterior storage compartment

Your Renault Trucks vehicle is fitted with storage spaces that can be accessed from outside the cab.

Cab storage compartment

Upper lockers

Left-hand side

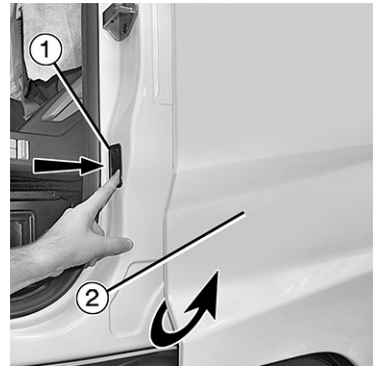
Opening

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Right-hand side

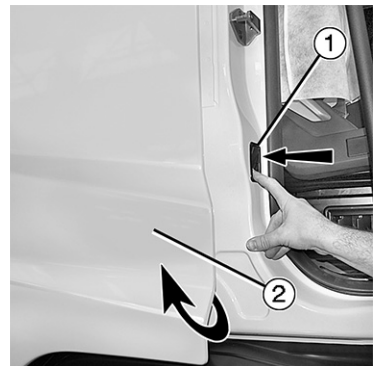
Opening

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Fuel tank(s)

DON'T FORGET to ensure maximum cleanliness when handling diesel.

Make sure that the tank is properly filled to avoid condensation from forming. But do not overfill it either to avoid fuel spilling on the roadway.

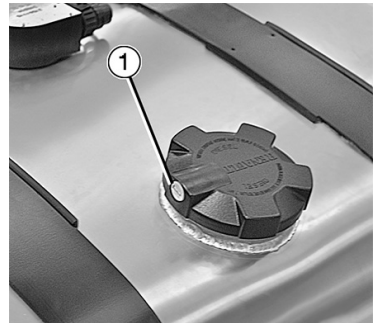
When refuelling, you must always make sure that the area around the filling inlet and the cap is clean. Make sure to filter the fuel from your own tank or drum and check that all the containers are clean.

Filler cap

The cap is locked by means of a lock (1).



To avoid moving off without refitting the cap on the tank, the key cannot be withdrawn while the cap is removed.



Use only commercially available diesel for motor vehicles (Standard EN 590).



Do not use the key for any purpose other than to lock and unlock the tank filler cap.

Vehicle fitted with two tanks



The diesel fuel level indicator indicates the total capacity of the tanks.



When adding fuel, it is recommended to put fuel in the two tanks.

Fuel labels

Modern engines are very sensitive to the quality of the fuel used. To guarantee optimum operation and the best possible cleaning of exhaust gases, the legislators have decided to impose a clear and precise code on fuel manufacturers and distributors, details are given in this chapter.

Label read mode

Fuel compatibility labels

On your vehicle fuel tank(s), a label like the one shown below indicates which types of fuel are compatible with your vehicle, based on the certificate level of your vehicle.

The logos (1) represented on the label are the logos that you will find on the fuel pumps at a service station.

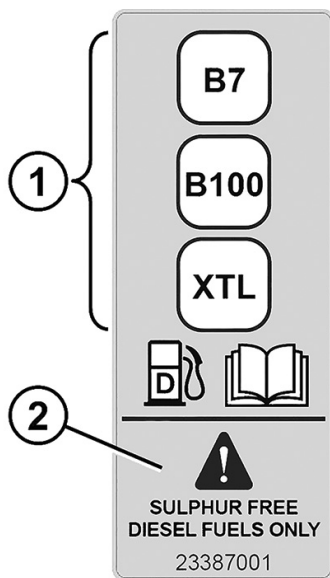
Please refer to the table for more details about the meaning of each logo.



The note (2) informs you that only fuels that contain less than 10 ppm of sulphur are permitted.



Before filling your vehicle with fuel, please refer to the label affixed to the vehicle fuel tank(s). This label indicates which types of fuel are compatible with your vehicle.



Meaning of the logos shown on the labels

The table below gives the meaning of each of the current logos.

LOGO	Relevant standard	Indicates that your vehicle is compatible with
------	-------------------	--

Fuel tanks

B7	EN-590	Fuels that contain up to 7% Bio-diesel (Standard diesel in Europe)
B10	EN-16734	Fuels that contain up to 10% Bio-diesel
B20	EN-16709	Fuels that contain from 14 to 20% Bio-diesel
B30	EN-16709	Fuels that contain from 24 to 30% Bio-diesel
B100	EN-14214	Fuels that contain up to 100% Bio-diesel (See Caution* below)
XTL	EN-15940	Paraffinic fuels obtained by synthesis or hydro-treatment (example: HVO, GTL, etc.)



**If the B100 logo is shown on the label, your vehicle is compatible with fuels type B7, B10, B20, B30 and B100, on the strict condition that they comply with the standards mentioned.*



All the fuels can be used on their own. Fuels type B7, B10 and XTL are fully interchangeable. If you regularly or occasionally use B20, B30 or B100, please contact a RENAULT TRUCKS Service Point for details of fuel change methods and maintenance intervals.

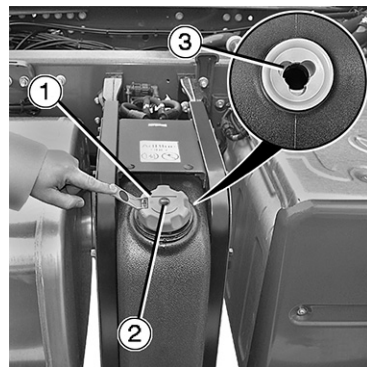
AdBlue tank(s)

The use of an additive for post-treatment of exhaust gases is mandatory to meet anti-pollution standards. It is forbidden by law to drive without AdBlue and it can cause irreversible damage to your engine.

Blue-coloured filler cap (1).

The cap is locked by means of a lock (2).

The tank filler neck is equipped with a fool-proofing device (3) which prevents any incorrect equipment from being inserted, to prevent any product other than AdBlue from being added.



Use only commercially-available AdBlue motor vehicles (Standard DIN 70070).



When filling the tank, it is essential to insert the fuel pump nozzle fully into the filler opening and to hold it in position to ensure that a sufficient volume of air remains on top of the AdBlue.



When handling AdBlue, use only type-approved containers and pumps that are clean and used only for this purpose.



It is forbidden to replace AdBlue by any other product or add any other product to it or else vehicle pollution control will no longer be achieved and you will run the risk of damaging the post-treatment system.



If you note that the AdBlue you are using for your vehicle is contaminated, in no event should you start your vehicle; contact a RENAULT TRUCKS garage.

You are recommended to check the AdBlue level in the tank each time the vehicle is filled with fuel.



The use of AdBlue is essential to the correct operation of the vehicle and for abiding by legislation in force.

Not using AdBlue may be considered an offence.



When draining the AdBlue tank, it is essential to refill it with at least 7 litres of AdBlue to prevent any damage to the after-treatment system.



Do not reuse AdBlue that has been drained from a tank.



AdBlue must always be handled with care; it is a corrosive agent.

AdBlue must never come into contact with other chemical products.

If it is spilled on the vehicle or if there is a leak, wipe off the excess with a cloth and rinse with water.



IF ANY ADBLUE IS SPLASHED ONTO THE SKIN OR INTO THE EYES, RINSE THOROUGHLY WITH WATER.

IN CASE OF INHALATION, BREATHE FRESH AIR.

CONSULT A DOCTOR IF NECESSARY.

Master switch



When the electrical circuit is open, the refrigerator and the air conditioning systems are no longer operational.

When the vehicle stops, depending on your vehicle's equipment, if you do not switch off the electrical power supply using the remote control, the system automatically goes into low consumption mode after:

12 hours if you leave the key in the cab.

2 hours if you remove the key from the cab.

This time period is configurable by a RENAULT TRUCKS garage.



*For working with an electric door locking remote control with master switch control, refer to the **Locking and Alarm** chapter for details of how to use it.*



Cab tilting

General information on the cab tilting

Before tilting the cab, check that:

- the ignition is switched off,
- the parking brake is applied,
- the gear shift control is in the "N" (Neutral) position,
- the storage compartments are locked,
- no object inside the cab could be thrown towards the windscreen,
- the doors are fully locked,
- the area in front of the vehicle is unobstructed.



Never tilt the cab while the engine is running.

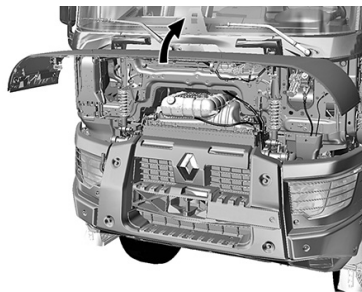
Before starting the engine, check:

- cab raised: the gearbox neutral position;
- cab lowered: the gearbox neutral position, ensuring it is working correctly.

When working underneath the cab (on the engine, etc.), the cab must be fully tilted.

Any operation on the cab tilt hydraulic circuit requires the application of safety instructions and must be carried out at a RENAULT TRUCKS garage.

The service cover **must** be opened before the cab is tilted in order to avoid damage.



Cab tilting

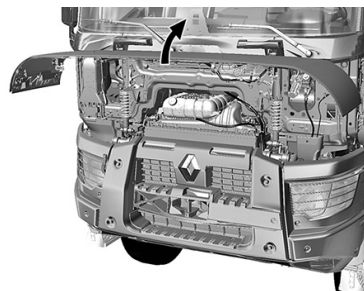
Before tilting the cab:

- open the bonnet,
- lock the storage lockers,
- empty the bottle storage,
- stop the refrigerator.

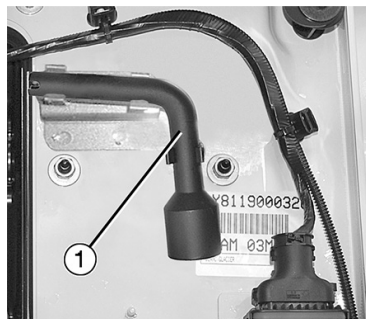
Mechanical control

With the vehicle immobilized, engine shut down, gear lever in neutral, doors properly closed, make sure that no loose articles inside the cab can be thrown against the windscreen. Clear the area in front of the cab.

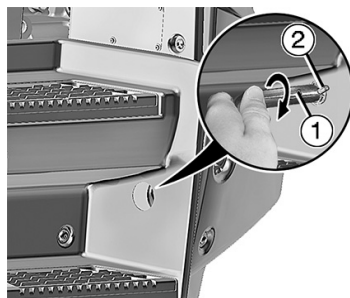
Open the bonnet.



Unclip the control bar (1).

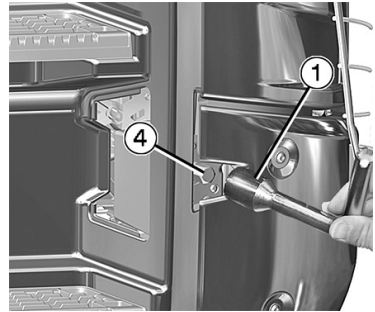


Position lever (2) in the "Up" position. Use the control bar (1).



Cab tilting

Position control bar (1) on cab tilt pump (4).

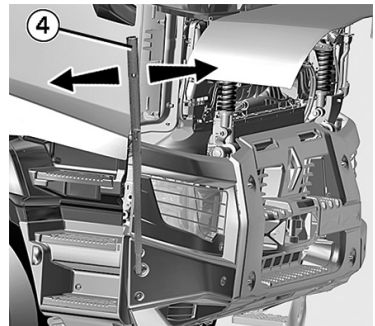


Unlocking is automatic, pump until the cab is tilted completely. Use jack handle (5) from the tool kit, assembled with control bar (1). Insert the jack handle fully.

To return the cab to the road position, set lever (3) to the "Down" position. Pump until the cab locks automatically and the pump handle becomes harder to move.

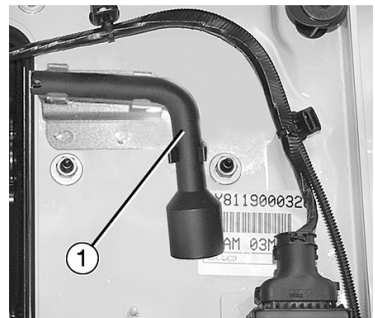
Check that the air intake bellows is positioned correctly.

Make sure that the two cab locking catches are locked correctly.



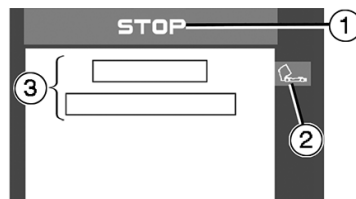
Clip the control bar (1).

Close the bonnet.



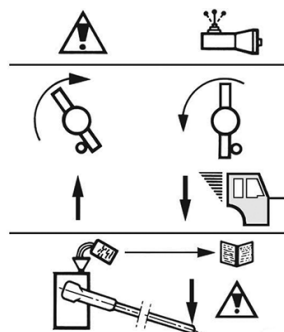


STOP warning light (1), warning pictogram (2) and a related message (3) are displayed to inform you that the cab has not been locked properly; repeat the cab tilt manoeuvre. If the anomaly persists, contact a RENAULT TRUCKS garage.



In the event of difficulties with tilting, put the cab in the "road" position and check the oil level. Top up the level if necessary.

Carefully complete a tilting manoeuvre (raise and lower). In the event of incorrect operation, visit a RENAULT TRUCKS garage.

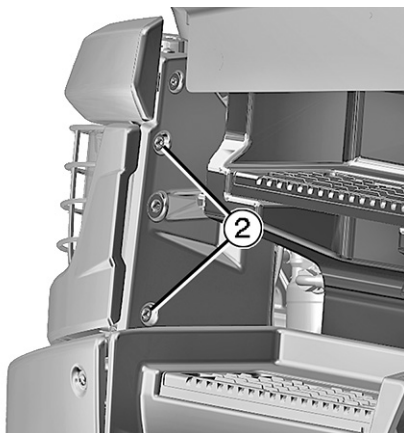
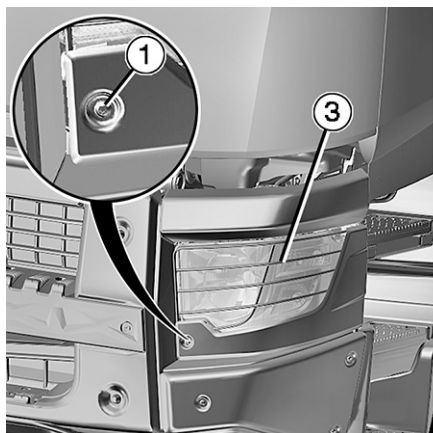


Cab tilt hydraulic circuit

Cab tilt hydraulic circuit

To access the cab tilt hydraulic circuit, loosen bolts (1) and (2) using the wrench provided in the tool kit.

Remove headlight unit protective grille (3).



Pivot the headlight unit assembly.

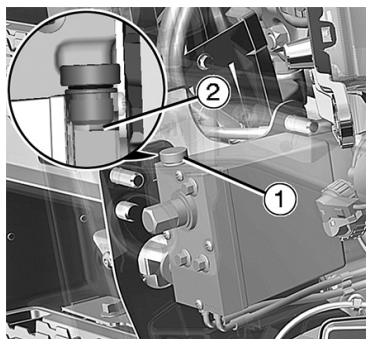


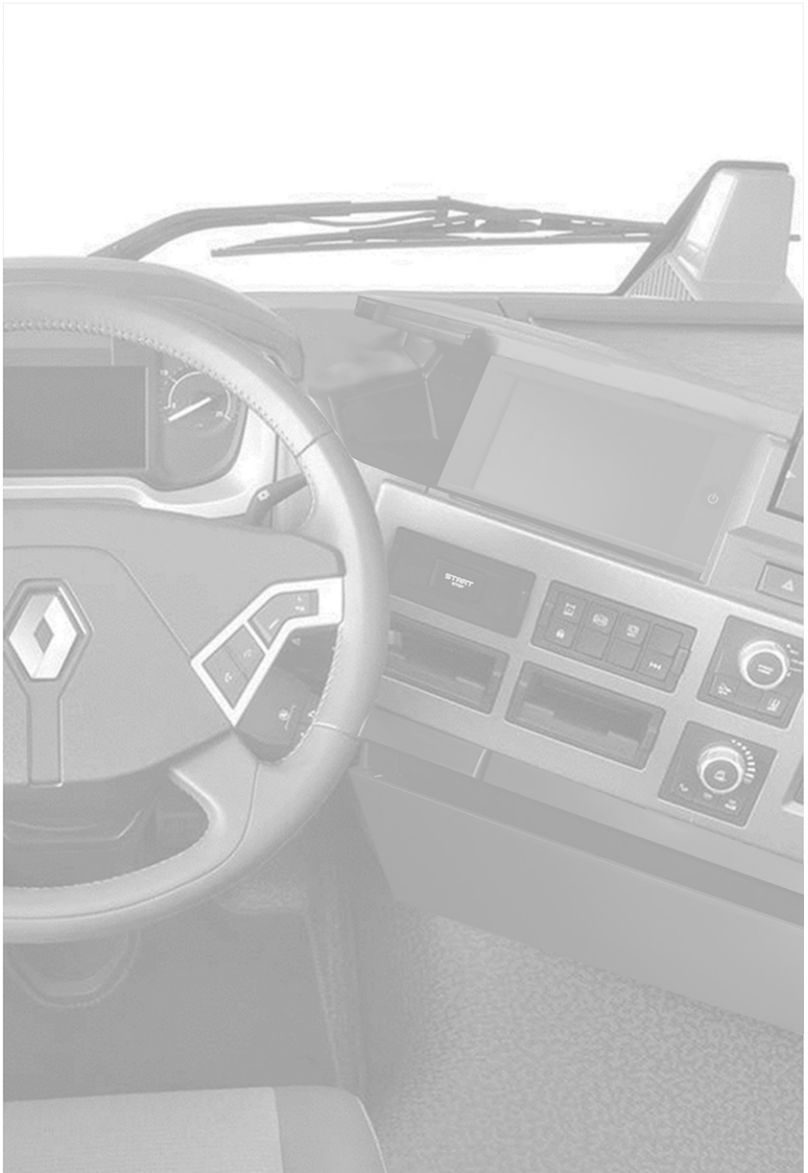
Filler and level

With the cab in the "road" position, fill with oil through oil reservoir filler port (1).

Check the oil level: the oil should be flush with the top of piston (2) when the piston is in the "down" position.

Carefully complete a full tilt manoeuvre (raise and lower) and check the level again. In the event of incorrect operation, visit a RENAULT TRUCKS garage.





Driver environment

Driving position

A comfortable driving position is essential. This will enable you to:

- always keep a clear view of the road, your instrument displays and dashboard,
- make sure you have quick access to all your controls,
- enjoy greater comfort and less fatigue.

Make sure you follow the different stages of getting into your vehicle in the correct order:

1. adjust the seat position,
2. adjust your steering wheel,
3. adjust your seat,
4. adjust your mirrors,
5. fasten your seat belt.



STOP

ADJUST YOUR DRIVING POSITION ONLY WHEN THE VEHICLE IS STATIONARY!



Even though they may be tempting to hold onto, do not use the steering column, dashboard or parking brake control as grips to help you get up.

Support yourself directly on the seat, the grab handles or the armrests, which are designed for this purpose.

Seat cushion adjustment

Sit back in the seat and extend your left leg towards the back of the compartment, where a clutch pedal would be on a vehicle with a manual gearbox.

You can tell the correct setting is reached when your leg is slightly bent, with your thigh flat on the seat.

To adjust your seat, please see the section on Seats, see Seats page 47 in this manual.

Steering wheel adjustment

Once you have adjusted the position of the seat, we can move on to the steering wheel. The steering wheel should be positioned in such a way that you can see the whole instrument display, without the edge of the wheel coming into contact with your legs, even when you shift from the accelerator to the brake pedal and vice versa.

To adjust your steering wheel, please refer to the section on Steering wheel adjustment, see Steering wheel adjustment page 66 in this manual.

Steering wheel adjustment

Keeping your arms straight, wrists resting on the top of the steering wheel, in the "quarter past nine" position, pull the back of your seat until it is perfectly in contact with your own back. Bring the headrest back until it is touching your head.

To adjust your seat, refer to the Seats, see Seats page 47 section of this manual.

Seat back adjustment

Now adjust your mirrors. Adjustments should be made with your head resting on the headrest. You should maintain a view of your vehicle over a small part of the mirror to make sure you have some visual reference points.

To adjust your mirrors, refer to the Electric exterior mirrors, see Rear view mirrors and visibility page 64 section of this manual.

Mirror adjustment

Seatbelt adjustment

- the collarbone,
- the sternum,
- the hip.

It should lie flat, with no twisting. The belt must fit snugly against you: clips and other devices that alter the belt position should be avoided, as they reduce the belt's effectiveness in the event of a collision.

To adjust your seat belt, please refer to the Seat belts, see Seat belts page 160 section of this manual.

Seats

Your Renault Trucks vehicle seats can be adjusted to adapt to your body shape and ensure your comfort.



For safety reasons, it is essential to remove the plastic protective film when commissioning the vehicle.

Pneumatically-controlled seats

The controls are operational when there is sufficient air pressure.

Driver and passenger seats



Depending on the seat configuration (driver's, passenger, left-hand drive, right-hand drive), the controls are located on one side or the other of the seat. The type of seat shown is only one solution.



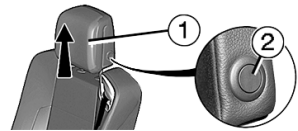
FOR SAFETY REASONS, ALL SEAT ADJUSTMENTS MUST BE MADE WITH THE VEHICLE STATIONARY.

THE USE OF THE SEATS IN A POSITION OTHER THAN BACK REST UP WHILE THE VEHICLE IS BEING DRIVEN IS THE RESPONSIBILITY OF THE USER.

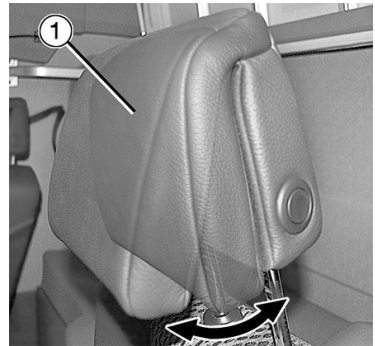
Head restraint

Adjust head restraint (1) to the required height.

To lower head restraint (1), press button (2) and push head restraint (1) downwards.

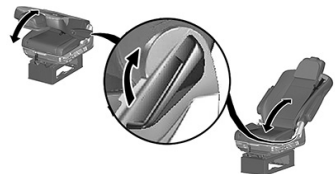


Adjust the angle of head restraint (1) manually.



Backrest tilt adjustment (driver/passenger)

Backrest tilt adjustment and rest position lever (it is forbidden to use this position for driving).

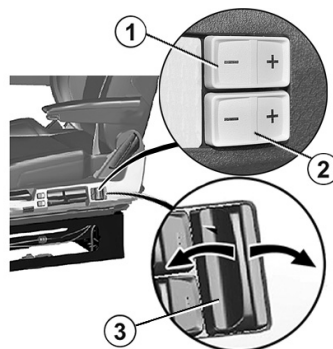


Driver's backrest comfort settings

"Upper" lumbar support adjustment (1).

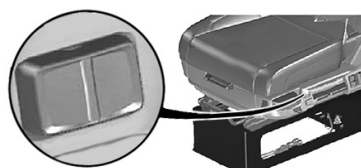
"Lower" lumbar support adjustment (2).

Backrest side support adjustment (3).



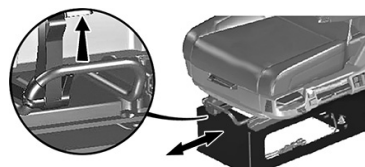
Driver's seat thermal comfort settings

Heated seat cushion and back rest on the driver's seat (automatic thermostat-regulated operation).

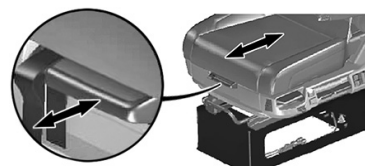


Seat adjustments

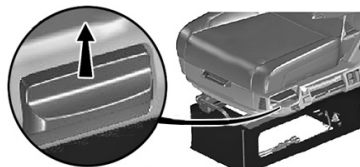
Longitudinal seat adjustment (driver/passenger).



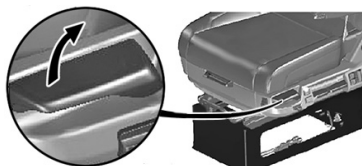
Driver's seat base depth adjustment.



Driver's seat base side support adjustment.



Driver's seat tilt adjustment.



Vertical suspension settings

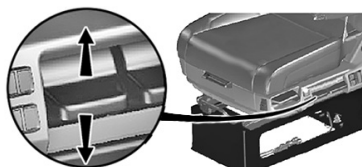
Adjust the flexibility of the suspension depending on the condition of the road and the weight of the user.

Softness adjustment of the 'vertical' driver's seat suspension.

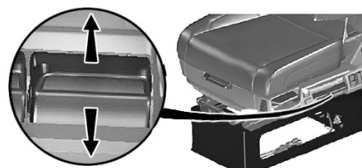
At top: suspension firm.

At bottom: suspension soft.

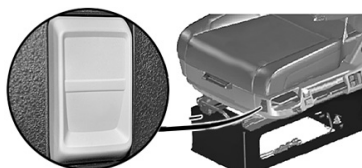
By positioning the control fully at the bottom, the suspension is locked in the selected position.



Driver's seat height adjustment.

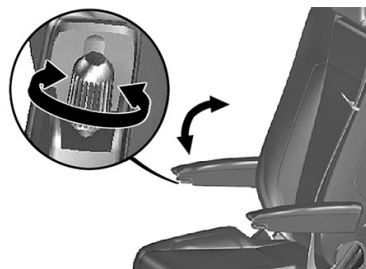


Quick lowering of the suspension (driver's seat)



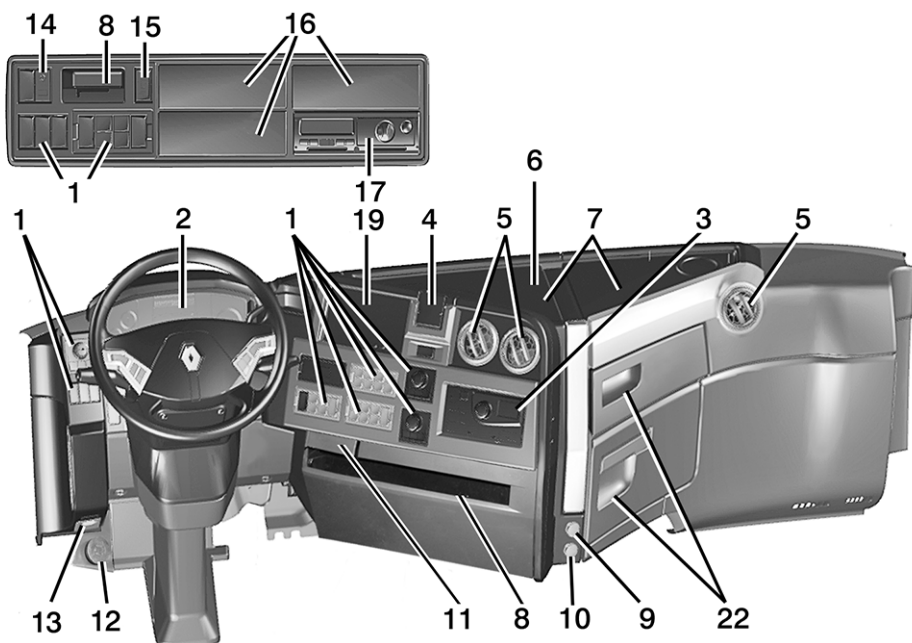
Armrest adjustment

Adjustment of the corresponding arm rest angle.



Dashboard

get familiar with the dashboard of your Renault Trucks vehicle. So you will know exactly how to optimise your comfort, and how to use each function.



- 1 - Switches
- 2 - Main information display
- 3 - Ventilation and air conditioning control panel
- 4 - Parking brake electrical control
- 5 - Air vents
- 6 - Fuses
- 7 - Drop-leaf table with non-slip surface (for use only with the vehicle stationary)
- 8 - Storage drawer
- 9 - 24 V socket (360 W max.)
- 10 - 12 V socket (120 W max.)
- 11 - Cup holder

- 12 - Steering wheel adjustment control
- 13 - Diagnostic and Infomax "OBD" socket
- 14 - Auxiliary socket
- 15 - Mic
- 16 - Locations for pre-arrangement(s)
- 17 - Tachograph location
- 19 - Secondary Information Display

Key to switches

Take the time, before starting, to find or move the switches for functions that are useful.

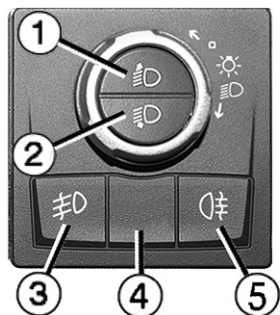
Movable switches

The location of most of the switches can be easily adapted to your needs. However, some cannot be moved for safety reasons. For more information, contact an approved Renault Trucks workshop.

Dashboard (side location)



The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



- 1 - Headlights beam height adjustment control
- 2 - Lighting mode selection ring
- 3 - Fog driving lights control
- 4 - Blanking plate
- 5 - Horn

5 - Fog lights control



- Blanking plate



- Bodybuilder equipment control



- Bodybuilder equipment control

Dashboard (central location)



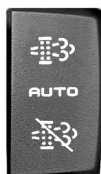
The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



- ASR disabling control



- Revolving beacon(s) control



- Particulate filter regeneration control (Euro VI)



- Fast idle speed regulation control



- Fast idle speed recall control



- Fast idle ON/OFF control



- Power take-off control



Gearbox control for driving on difficult terrain (Optidriver)



- Manual acceleration control for difficult terrain



- Bodybuilder equipment control



- Bodybuilder equipment control



- Blanking plate



- Reversing buzzer control



- Hill-start assist control



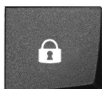
- Retarder control (manual/automatic)



- Interior lighting control

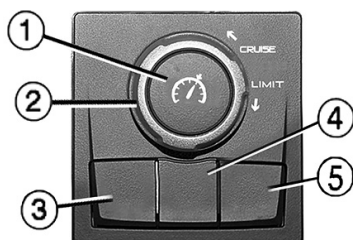


- Remote lights control



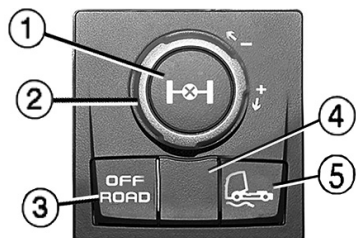
- Central door locking control

Cruise control rotary control



- 1 - Cruise control ON/OFF control
- 2 - Cruise control/speed limiter mode rotary control
- 3 - Blanking plate
- 4 - Blanking plate
- 5 - Blanking plate

Rotary control for differential locks



- 1 - Differential locks disengagement control
- 2 - Rotary control for activating the different locks
- 3 Gearbox control for driving on difficult terrain (Optidriver)
- 4 - Blanking plate
- 5 - Manual acceleration control for difficult terrain

Header shelf



The location of the switches is given as an indication only and may be modified in the factory depending on vehicle options.



- Front sun visor control



- Mic



- Auxiliary socket and USB socket



- Geolocation control

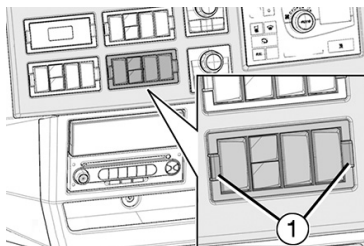


- Additional lights control

Repositionable switches

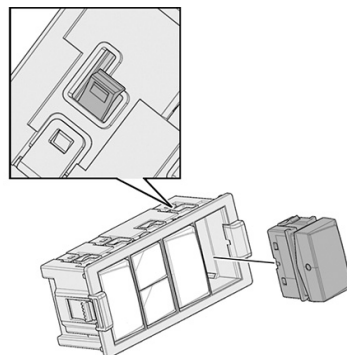
Removing a repositionable switch

First remove the module from the dashboard by pulling on the two tabs (1).



Press the tabs.

Pull the switch from the module.

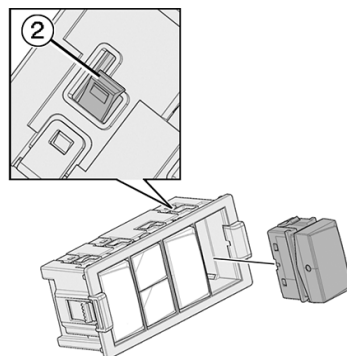


Fitting a repositionable switch

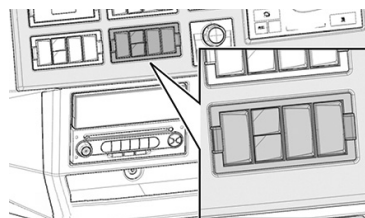
Insert the repositionable switch in the location chosen.



Ensure that the switch is inserted sufficiently, carry out a visual inspection of clip to do this (2).



Reposition the module in its location.



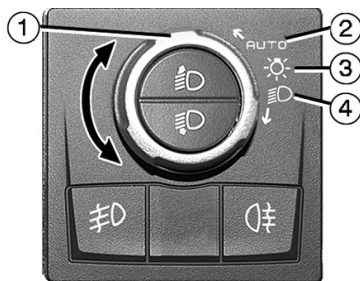
Combined lights and horn stalk switch

Lighting

Automatic mode

Default position (2).

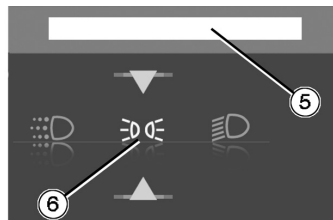
In this mode, the dipped beam headlights will be switched on automatically as soon as daylight is inadequate or when entering a tunnel.



Parking lights (position lights)

Turn control (1) to position (3).

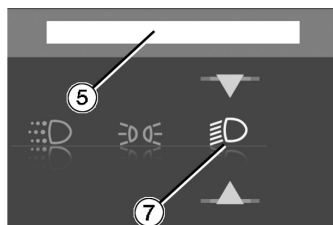
In the "Exterior lamps" section (5), warning pictogram (6) indicates that you are in parking lights mode.



Dipped beam headlights (low beam)

Turn control (1) to position (4). Pictogram (U) lights up.

In the "Exterior lamps" section (5), warning pictogram (7) indicates that you are in dipped beam headlights mode.



*If the dipped beam headlights pictogram is no displayed, check the operation of the dipped beam headlights; if necessary, replace any defective bulbs (refer to the **Servicing and Maintenance** section).*

If the cause of the fault is not the bulbs, visit a RENAULT TRUCKS garage.

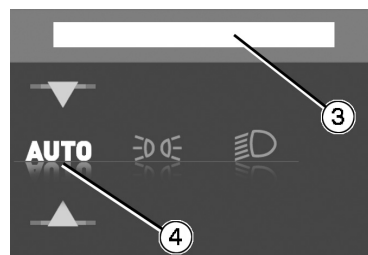
Main beam headlights (high beam)

With control (1) in position (4), move steering wheel-mounted control (5) towards you. Pictogram (V) lights up.

To return to the dipped beam headlights position, move steering wheel-mounted control (5) towards you again. Pictogram (U) lights up.

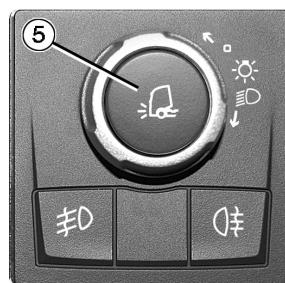
Automatic lighting mode is automatically activated.

In the "Manual lighting mode" section (3), indicator pictogram (4) indicates that you are in automatic mode.



Extinguishing

Turn control (1) anticlockwise until the parking lights are extinguished or press on button (5).



Audible alarm

When a front door is opened, an audible alarm is triggered (and a warning will appear on the display) to warn you that the lights are still on after the ignition has been switched off (discharging the accumulator batteries).

Fog driving lights and fog lights

Press buttons (1) and (2) in the parking lights or dipped headlight position. Indicator pictograms (T) and (S) are displayed.





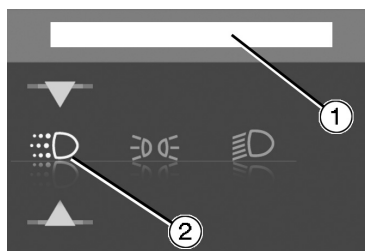
When the front fog lamps are lit, the main beam headlights cannot be used.



*The button (1) controls the fog lamps at the front of the vehicle.
The button (2) controls the fog lamps at the rear of the vehicle.*

The daytime running lights "DRL" will be automatically lit when the parking lights go out.

In the "Exterior lighting" section (1), indicator pictogram (2) indicates that the daytime running lights are lit.



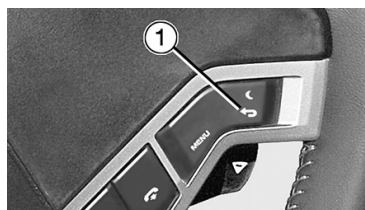
Brightness adjustment

The instrument panel lighting intensity is reduced when the lights are switched on.

Minimum brightness setting

Pressing and holding button (1) reduces the lighting intensity of the central part of the multifunction information display to the minimum.

To return to the normal lighting intensity of the multifunction information display, press on the "MENU" button.



The lighting intensity of the multifunction information display automatically returns to normal when an alert message is displayed.

Direction indicator

Operate steering wheel-mounted control (5) parallel to the steering wheel.

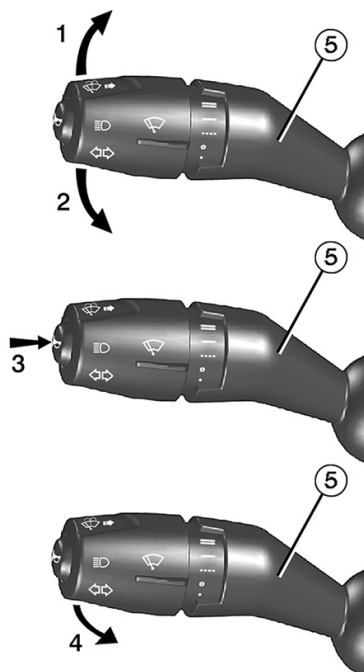
Position (1): RH direction indicator.

Position (2): LH direction indicator.

Control (5) returns automatically.



The warning lights associated with the direction indicator inform you of the state of the system.



Warning buzzer

Press button (3) on steering wheel-mounted control (5).

Warning light

Press steering wheel-mounted control (5) towards you. Pictogram (V) lights up.

Windscreen wash/wipe control

Keeping the control in position (1), activate the windscreen wiper and the windscreen wash at the same time.

When you stop pressing on the control, windscreen wiper operation cuts off after a few sweeps.

Depending on your vehicle's equipment

Operate the control parallel to the steering wheel.

Position (2): touch mode.

Position (3): park.

Position (4): intermittent wiping or automatic "rain sensor" mode (the system detects water on the windscreen and starts sweeping the windscreen at a suitable wiping speed).

Position (5): slow wiping.



Position (6): fast wiping.



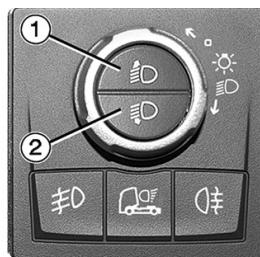
Whenever the ignition is switched off, it is essential to return to park position (3) to return to automatic "rain sensor" position (4).

Headlight adjustment

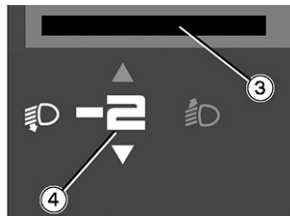
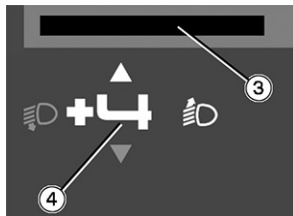
To see and be seen correctly without dazzling other road users, take care to adjust the height of your headlights whenever there is a change in the vehicle load.

Vehicle unladen: press on button (1) to raise the headlight beam.

Vehicle laden: press on button (2) to lower the headlight beam.



In "Headlight adjustment" area (3), a warning pictogram (4) indicates the adjustment value.



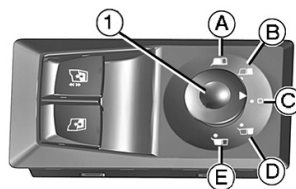
Rear view mirrors and visibility

To guarantee safety for you and other road users, it is essential to take the time to adjust your door mirrors.

Electrically-controlled exterior rear view mirrors

Position control (1):

- to (A) to adjust the left-hand lower door mirror;
- to (B) to adjust the left-hand upper door mirror;
- to (C) to make it inactive;
- to (D) to adjust the right-hand upper door mirror;
- to (E) to adjust the right-hand lower door mirror.



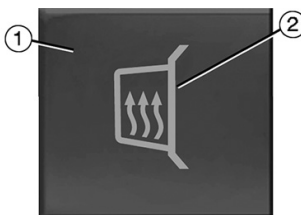
Adjustment

Select the door mirror to adjust then operate the control. This is omnidirectional.

De-icing

De-icing is operated using heater temperature control panel control (1).

Warning pictogram (2) is lit during the de-icing function.

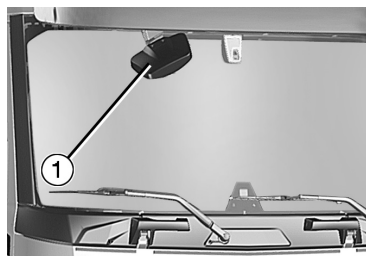


The rearview mirror de-icing function is active only with the engine running.



Forward view mirror

Forward view mirror (1) provides a panoramic view of the front of the vehicle from the driver's seat.



Forward view mirror (1) must be folded in when washing the vehicle in a roller car wash.

Steering wheel adjustment

Your Renault Truck steering wheel can be adjusted to adapt to your body shape and ensure your comfort.

STOP

BEFORE UNLOCKING THE STEERING COLUMN, MAKE SURE THAT THE VEHICLE HAS STOPPED IN A SAFE PLACE, AND THAT THE PARKING BRAKE IS ON.

Unlocking

Press the control (1) with your left foot.

You can make any adjustment you want while you keep your foot pressed down on the control.



Control (1) is operational when the air pressure in the circuit is sufficient.



Adjustment options:

- forward,
- rear,
- up,
- down,
- angular.



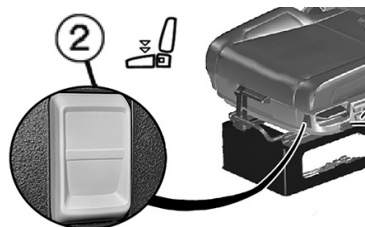
Locking

Release the control (1) with your left foot.



Do not apply lateral forces to the steering wheel while the system is unlocked for position adjustment.

The **Easy access** position (2) makes it easier for you to enter and leave the vehicle.



Tachograph

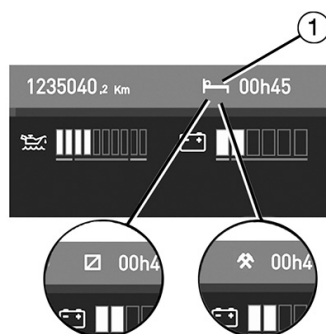
Generalities

The tachograph has separate instructions for use in the pocket for the driver's manual.

The tachograph records the speed and the driving and rest time. The drivers, companies and authorities can use the recorded information to check that the rules are being followed.

The tachograph is located in the panel above the windscreen, driver's side.

The multifunction information display indicates the driver activity (1) depending on the selection of the chosen tachograph.

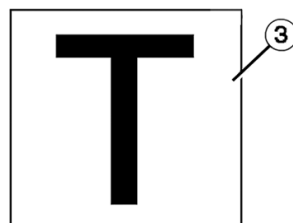


To prevent damage to the tachograph, carefully read manufacturer's user guide supplied with your vehicle's on-board documents .

If warning pictogram (3) is displayed, ensure that:

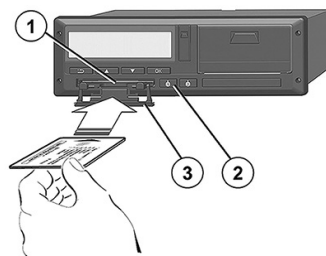
- The driver card is present in card reader (1) of the tachograph.

Otherwise, go to the nearest RENAULT TRUCKS garage at the earliest opportunity to have the repair carried out.





The vehicle must be stopped and the ignition switched off when inserting or ejecting the driver card into or from tachograph card reader (1). Hold the Driver (2) button for approximately 2 seconds, open the card reader slot (3) and insert or remove the driver card, then close the slot. Ejecting the card will automatically reset the drive and rest time information indicated on the multipurpose display. After inserting a driver card, the settings of the multipurpose display will automatically be applied after a few seconds.



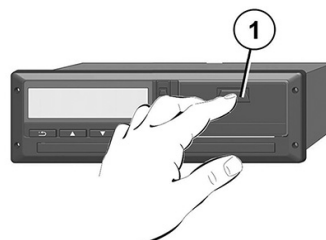
During loading of the driver card data in the tachograph, it is possible to select an activity and to drive.

Installing a roll of paper



This operation should be performed with the vehicle stationary and the ignition switched off.

Press part (1) to open the printer drawer.



DEPENDENT ON THE AMOUNT OF PRINTING CARRIED OUT, THE THERMAL PRINTING HEAD MAY BE VERY HOT AND BURN THE FINGERTIPS.

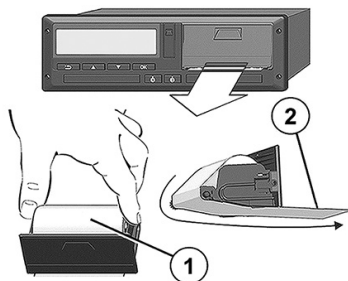
Open the printer drawer and remove the old paper roll (1).

Place the new paper roll (1) and guide it onto the roller.

Ensure that the end of the paper strip (2) is sticking out of the bottom of the drawer edge (see illustration).

Push the printer drawer back in until it locks.

The printer is ready to operate.



Only rolls of paper with the following specifications may be used:

- type approval marking "**e1 84**",
- approval marking "**e1 174**",
- RENAULT TRUCKS part number: 50 01 867 410.



ENSURE THAT THE PRINTER DRAWER REMAINS CLOSED AT ALL TIMES TO PREVENT ANY RISK OF BEING CUT BY THE PAPER CUTTING BLADE.

Instrument panel

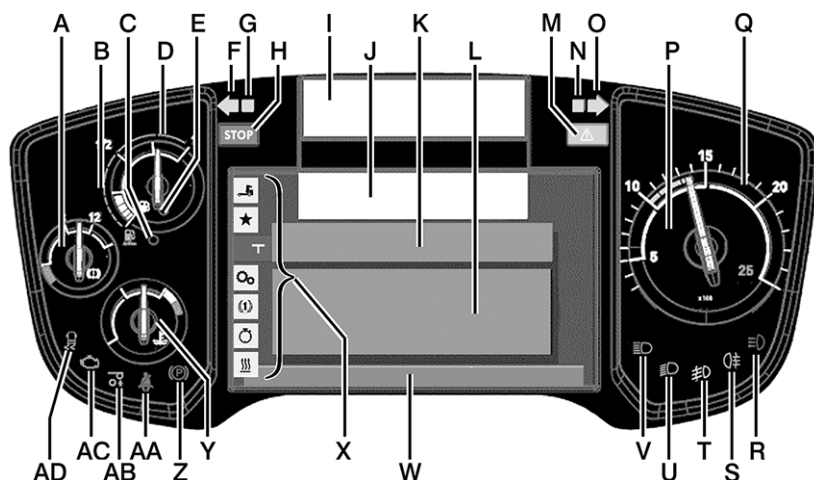
All the information required during driving is compiled in the instruments.

The central information display shows information and warning messages when necessary. In other cases, it displays the information that you choose yourself. In its top part, it shows direction arrows, STOP and SERVICE lights and the speed display (cruise control, speed limiter and anti-collision radar)

The left part comprises gauges for fuel, temperature and air pressure.

Finally, the right part holds the tachometer and the long-range headlamps, front fog lamps, rear fog lamps, low beam lamps and full beam lamps.

You will find a description of the instrument panel in the following pages, with all the warning light captions.



Depending on your vehicle's equipment

- A - Air pressure indicator
- B - AdBlue level indicator
- C - Minimum AdBlue level warning light
- D - Fuel level indicator
- E - Minimum fuel level warning light
- F* - Tractor LH direction indicator lights telltale
- G** - Trailer LH direction indicator lights warning light

- H - "STOP" warning light: stop immediately
- I - Speed display:
 - Cruise control
 - Speed limiter
 - Anti-collision radar
- J - Gearbox display:
 - Gear engaged
 - Retarder control position indicator
 - Eco Cruise Control information
- K - Multifunction information display
- L - Multifunction information display
- M - "SERVICE" warning light: go to the nearest RENAULT TRUCKS garage
- N** - Trailer RH direction indicator lights warning light
- O* - Tractor RH direction indicator lights telltale
- P - Engine speed counter
- Q - Engine operating speed zone
- R - Long range headlights warning light
- S - Fog light(s) warning light
- T - Fog driving lights warning light
- U - Dipped beam headlights warning light
- V - Main beam headlights warning light
- W - Comfort information display:
 - Clock
 - Exterior temperature indicator
 - Radio
- X - Tabs for the different pages
- Y - Engine cooling circuit temperature indicator
- Z - Parking brake warning light
- AA - Fasten seat belt warning light
- AB - Lift-up axle warning light
- AC - Engine electronic fault warning light
- AD - "ESC" operation indicator light

Operation of direction indicator lights repeater lights

*Without trailer

When the direction indicator lights or hazard warning lights control is activated, indicator (F) or (O) should flash and the audible warning should sound. If the warning light (F) or (O) does not work, one of the vehicle lamps is faulty.

**With trailer

When the direction indicator lights or hazard warning lights control is activated, indicators (F/G) or (O/N) should flash and the audible warning should sound.

If the warning light (F) or (O) does not work, one of the vehicle lamps is faulty.

If the warning light (G) or (N) does not work, one of the trailer lamps is faulty.



If the cause of the fault is not the bulbs, visit a RENAULT TRUCKS garage.

Key to warning pictograms



A text indicating the procedure to be followed or an information message is displayed below the warning pictogram.



These warning pictograms are shown on the multifunction information display.

Depending on your vehicle's equipment



- Driver's information warning light



- Driver's information warning pictogram



- Information display fault warning light



- Battery warning pictogram
- Battery charge fault warning pictogram



- Engine oil pressure "Warning" light



- Engine oil temperature "Alert" warning light



- Engine oil level "Alert" warning light

- Engine oil level information loss warning pictogram



- Vehicle electronic fault warning light
- Body builder 103 unit fault warning light



- Bodybuilder CAN bus link fault warning pictogram



- Unknown electronic box fault warning light



- Engine electronic fault warning light



- Air preheating warning lamp



- Parking brake warning light



- Minimum air pressure "Alert" warning pictogram
- Braking system or parking brake fault warning pictogram
- Tractor EBS fault warning pictogram:
 - orange warning light: System fault "Information"
 - red warning light: System fault "Warning"



- Tractor "ABS" warning light:
 - system fault warning pictogram



- ABS deactivated warning pictogram



- Tractor "ESC" warning pictogram:
 - warning pictogram flashing: system activation
 - warning light lit steadily: System fault "Warning"



- Tractor "ASR" warning pictogram:
 - warning pictogram flashing: function activation
 - warning pictogram lit constantly: system fault "Alert" or function inhibited



- Trailer "ABS" "EBS" "ESC" warning pictogram:
 - orange warning light: System fault "Information"
 - red warning light: System fault "Warning"



- Brake pad wear warning indicator



- Brakes high temperature warning light



- Air management fault warning pictogram



- Stop lights fault warning pictogram




- Reversing lights fault warning pictogram





- Headlight beam upward adjustment warning pictogram





- Headlight beam downward adjustment indicator


 - Daytime running lights (DRL) warning pictogram

 - Parking lights warning pictogram


 - Dipped beam headlights warning light


 - Main beam headlights warning light


 - Fog driving lights warning light


 - Fog light(s) warning light


 - Direction indicator lights warning pictogram

 - Windscreen de-icing - de-misting warning pictogram

 - Rain sensor warning pictogram

 - Air distribution in cab warning pictogram
The arrows indicate the direction of the air flow

 - Alarm clock programming warning pictogram

 - Seat belt reminder warning pictogram



- Engine fast idle warning pictogram



- Engine idle speed warning pictogram



- Engine stop warning pictogram



- Engine equipment fault warning pictogram



- Fuse or relay fault warning pictogram



- Maintenance alert warning pictogram



- Water-in-fuel warning pictogram



- Fuel supply anomaly warning pictogram



- Minimum fuel level warning light



- Minimum AdBlue level warning light



- Engine cooling circuit temperature "Alert" warning lamp



- Power steering fault warning on 8x4 / 8x2/6 / 8x8



- Engine coolant low level warning indicator
- Engine coolant low level sensor fault warning pictogram



- Air filter clogging warning pictogram



- Particulate filter regeneration warning pictogram



- Pollution control system fault warning pictogram



- "Euro VI" Pollution control system fault warning pictogram



- High exhaust temperature warning pictogram



- Screen wash low level warning pictogram



- Screen wash tank empty warning pictogram



- Electronic anti-theft device fault warning pictogram



- **ASR** deactivation/operation warning light (rolling road test bench mode)



- Retarder warning pictogram



- Cruise control warning pictogram



- Gearbox-driven power take-offs in service warning pictogram

Marks (1/2/3) are displayed depending on which power take-offs are engaged



- Gearbox-driven power take-off fault warning pictogram



- Power take-off maximum speed warning light



- Power take-off minimum speed warning light



- Inter-axles diff. lock in service warning pictogram



- Inter-wheel differential lock in service warning pictogram



- Manual acceleration control for difficult terrain indicator light



- Cab tilt anomaly warning pictogram



- Collision risk "Alert" warning pictogram

- AEBS deactivated "Information" pictogram




- Lane Departure Warning System "Alert" warning pictogram

- Lane Departure Warning System deactivated "Information" warning pictogram

Key to "gearbox" pictograms



- Move gear lever to position (D) "Information" pictogram

 Move gear lever to position (N) "Information" pictogram

Auto Integral automatic mode "Information" pictogram

MANU Permanent manual mode "Information" pictogram

(MANU) Temporary manual mode "Information" pictogram

Power Maximum vehicle mobility "Information" pictogram



- Robotized gearbox selector fault warning pictogram



- Automated manual transmission clutch wear warning pictogram



- Gearbox oil temperature "Alert" warning pictogram

- Gearbox air pressure fault warning pictogram



- Gear engaged in direction opposite to driving "Alert" warning pictogram



- Gear engaged in direction opposite to driving "Alert" warning pictogram



- Clutch wear warning indicator



- Clutch overheating warning pictogram

Key to "Tachograph" pictograms



- Tachograph fault warning pictogram

- Driving information pictogram



- Accumulated driving time indication pictogram



- Current driving time indication pictogram



- Rest time indication pictogram



- Availability time indication pictogram



- Working time indication pictogram

"Body builder" equipment information pictogram key



- Bodybuilder message pictogram



- Brakes locked on chassis pictogram



- Bodybuilder system active pictogram



- Body interior lighting pictogram



- Tipper in working position pictogram



- Crane deployed pictogram



- Tailgate open pictogram



- Stabiliser feet deployed pictogram



- Cannot start with engine stop on chassis pictogram



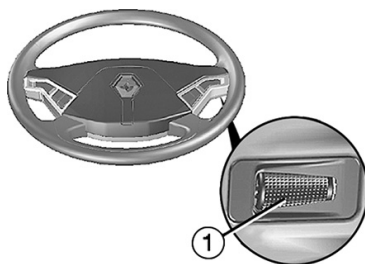
- Engine stop on chassis pictogram

Description of the display controls

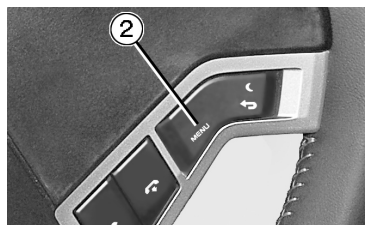
Multifunction display controls

Two control buttons are present above and below the steering wheel to let you browse through the display menus.

Turn navigation control (1) located under the steering wheel to "navigate" through the pages and menus of the multifunction information display, and press it to confirm choices.



Control (2) is used to access the configuration menus and exit the sub-pages/sub-menus that are currently open.



It is recommended to use controls (1) and (2) with the vehicle stationary and parked correctly.



When a menu is greyed out, check that all the conditions required for accessing this menu are present.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

Multifunction information display

Description

The multifunction information display is divided into 5 separate zones.

Area (1)

Information relating to speed:

- gear indicator,
- cruise control information,

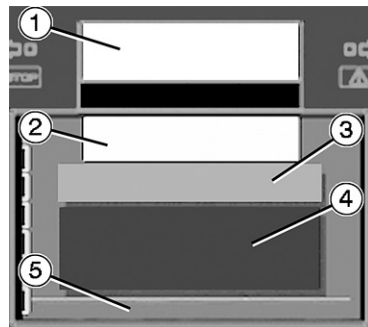
Area (2)

- information relating to use of the gearbox,

Area (3)

Information relating to the start-up procedure:

- total mileage,
- partial mileage,
- information relating to on-board computer,
- information relating to tachograph.



Area (4)

This is the main display zone; the different menus, information complementary to driving, alert and information pictograms are displayed here.

When the ignition is switched on:

- the warning lights relating to the self-test are displayed for a few seconds.

Area (5)

Information relating to comfort:

- exterior temperature indicator,
- time display.

Driver's interface

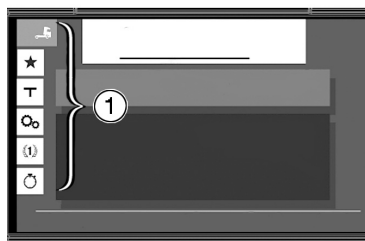
driver interfaces

To exchange information with you simply and relevantly, the display is divided into different pages.

These interfaces appear on the left of the display (1).

You will find the following menus there:

- Home page and fault display
- Favourites page,
- Tachograph page,
- Equipment page
- Economy driving page
- Alarm clock and timer page



Home page and fault display

Welcome

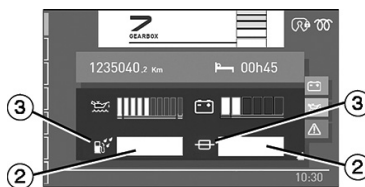
When the ignition is switched on, a home page is displayed on the multifunction information display and remains present for 30 seconds after the vehicle has been started.

A message (2) and its associated warning symbol (3) indicate that there is a fault (fuse to be replaced, maintenance required, etc.).

For example, this illustration shows the presence of water in the fuel and a faulty fuse.

If several faults are present, you must first resolve the first two faults in order to see the next ones displayed.

The home page shows:



(4): the total number of kilometres covered by the vehicle.

(5): time spent in the activity selected.

(6): the engine oil level sensor.

After 30 seconds, faults (1) remain on the main screen of the multifunction information display.



Display of fault(s)

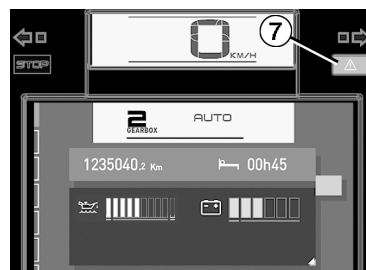
In the event of one or more faults, one or more warning pictogram(s) (6) is/are displayed on the instrument panel. In this case, the warning pictogram (STOP or SERVICE) lights up simultaneously to indicate how serious the fault or faults are.



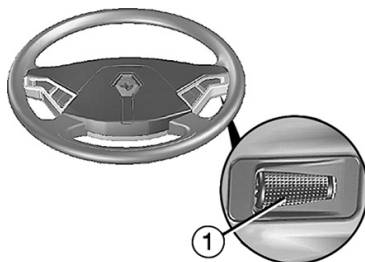
There are two possibilities:

1st scenario

- If orange SERVICE warning pictogram (7) is displayed: you must identify the problem if possible and have it resolved, or make your way to the nearest RENAULT TRUCKS garage.



For more information on the service fault, confirm using button (1).



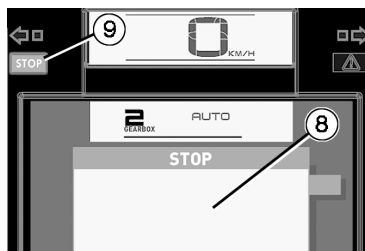
A text indicating the procedure to be followed or an additional information message (8) is displayed.



2nd scenario

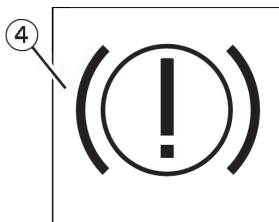
- If red STOP warning pictogram (9) illuminates: you must stop the vehicle and contact the nearest RENAULT TRUCKS garage.

A text indicating the procedure to be followed or an additional information message (8) is displayed.



Air pressure warning pictogram:

- If pictogram (4) is displayed, start the vehicle to pressurise the air circuit. If this is not the case, there is a braking system fault.
- If numerous faults are present (characterised by the STOP and SERVICE messages), only STOP warning pictogram (9) is displayed.



Favourites page

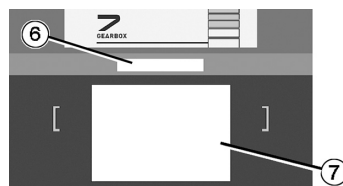
In the drop-down menu, select the favourites page.

The page is divided into 4 separate zones.

Turn the navigation control placed under the steering wheel to select the zone (2), (3), (4) or (5), confirm the entry in the menu by pressing it.



The **favourites** selection menu (6) is displayed. Select your desired favourite (7) with the navigation control under the steering wheel. Confirm the entry in the menu by pressing it.

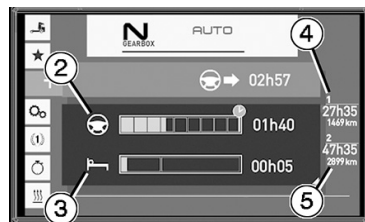


Within the page indicating the odometer, fuel consumption and average speed, you have the option to reset these to zero. To do this, keep the steering wheel-mounted control pressed down until the values reset.

Tachograph page

By navigating with the steering wheel-mounted navigation control, you can access the tachograph information:

- (2) - Driving time already elapsed.
- (3) - Break time.
- (4): Driving time and kilometres covered in 1 week.
- (5): Driving time and kilometres covered in 2 weeks.





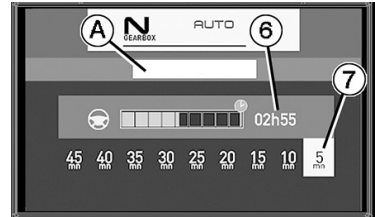
If driving with a crew, if both cards are inserted into the tachograph, the mileage displayed (4) and (5) represent the crew's total, unlike the driving time which is still associated with the card of the driver.

By default, an alert sounds when the driving time exceeds 4 hours and 30 minutes.
A first pre-alert sounds when the driving time exceeds 4 hours and 15 minutes.

You may configure an additional alert to precede the pre-alert:

Press the steering wheel-mounted navigation control: the sub-page concerning **the rest-pause warning** (QA) is displayed.

(6) - Driving time since the last break.



(7) - Additional alert.

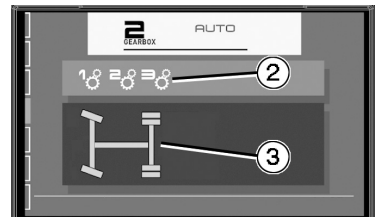
Select an additional alert (7) for between 5 and 45 minutes.

Trade equipment page

By navigating with the steering wheel-mounted control, you can access the application equipment page:

Zone (2) shows the power take off(s) activated.

Zone (3) illustrates the drive axle locking or engagement zone(s).



Alarm and timer

By navigating with the steering wheel-mounted control, you can access the alarm and timer adjustment:

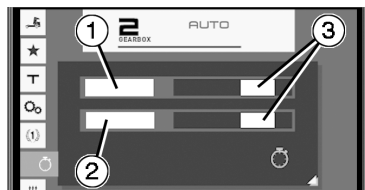
In the drop-down menu, select the alarm and timer page.

Alarm (1) is functional when stationary (3).

Timer (2) is functional when stationary (3).

Press the steering wheel-mounted navigation control to confirm your choices.

Select the function required.



Alarm

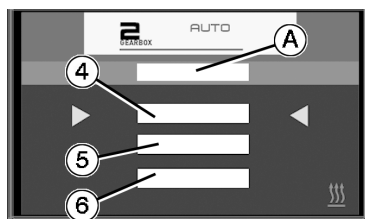
Menu (A) for the **alarm** is displayed.

(4): stop alarm.

(5): activate alarm.

(6): adjustments.

Turn the steering wheel-mounted control to navigate in the sub-section. Press it to confirm your choices.



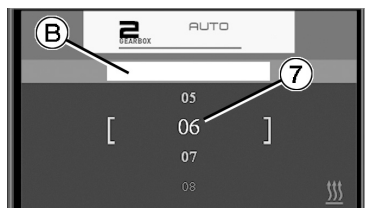
Activating the alarm

The **start time** selection page (B) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the hour required (7).

Press the steering wheel-mounted navigation control to confirm your choices.



The **minutes** selection page (C) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the required number of minutes (8).

Press the steering wheel-mounted navigation control to confirm your choices.



Settings

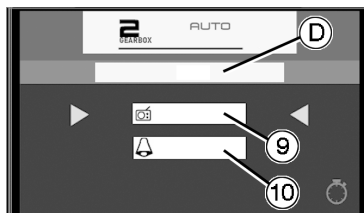
The **alarm** tone selection page (D) is displayed.

(9): selecting the radio.

(10): selecting the ring tone.

Turn the steering wheel-mounted control to navigate in the sub-section.

Press the steering wheel-mounted navigation control to confirm your choices.



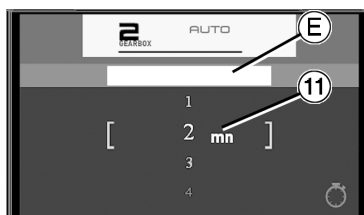
Timer

The **timer duration** selection page (E) is displayed.

Turn the steering wheel-mounted control to navigate in the sub-section.

Select the required number of minutes (11) between 1 and 90 minutes.

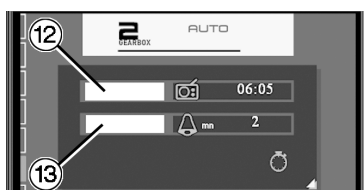
Press the steering wheel-mounted navigation control to confirm your choices.



Once the programming is complete, the information appears on the information display:

(12): alarm start time.

(13): timer duration.

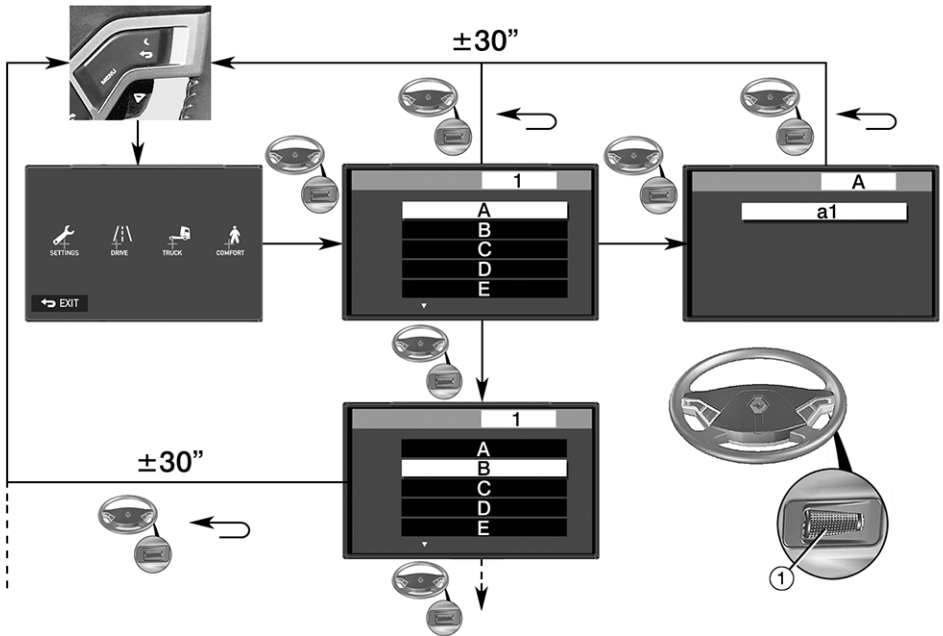


Description of topics

The vehicle themes

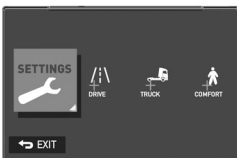
Four themes can be set:

- Adjustment
- Drive
- Vehicle
- Comfort



Choose the desired theme and navigate the menus by rolling the thumbwheel (1).
Confirm your choice by pressing the thumbwheel (1).

Adjustments



A - Brightness adjustment

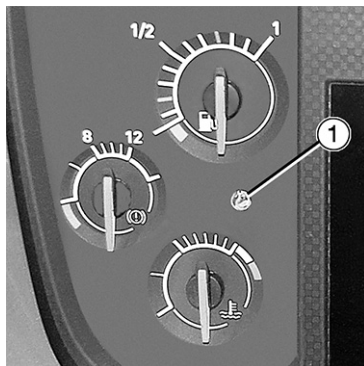


This setting may only be made with the lights lit.

a1 - This function adjusts the brightness of the instrument panel and switches.



When the lights are lit, the brightness of the instrument panel lighting varies according to the lighting level detected inside the cab by cell (1).



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

B - Night mode setting

b1 - Standard level

This level deactivates the lighting of the multifunction information display, and reduces the backlighting of the gauges and speedometer.

b2 - Extended level

In addition to the standard level, this level enables lighting of the controls and the offset information display to be deactivated.

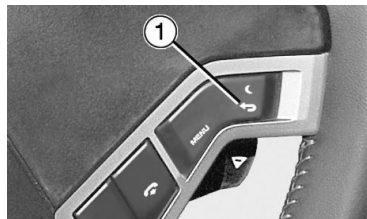


If a message or warning is displayed, the information display brightness reverts automatically to the initial setting.

Pressing and holding key (1) activates night mode.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*



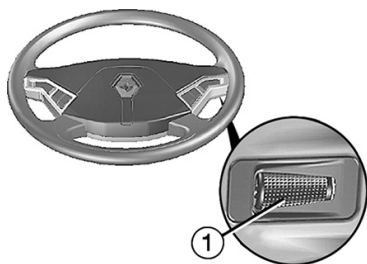
C - Sounds

c1 - Volume level

This function adjusts the volume level.

Set the volume required with the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).



D - Languages

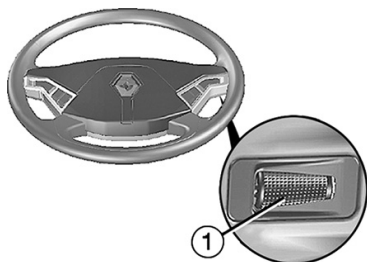
Choose the language via the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).

You can choose between three different languages.



The language is detected automatically depending on the nationality declared on the driver card.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

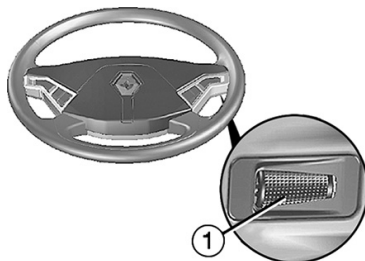
E - Time and date

This function is used to configure:

- Time
- Date
- Date format



The format selected for the date by the driver will be used wherever the date is displayed.



Date adjustment

Choose the day, month and year via the thumb wheel (1).

Confirm the choice by a press on the thumb wheel (1).

Setting the time

This function is used to set the time for the instrument panel and the digital tachograph.

Set the hour using the thumbwheel (1).

Confirm the adjustment by a press on the thumb wheel (1).

Set the minutes (in 30-minute increments) using the thumbwheel (1).

Confirm the adjustment by a press on the thumb wheel (1).

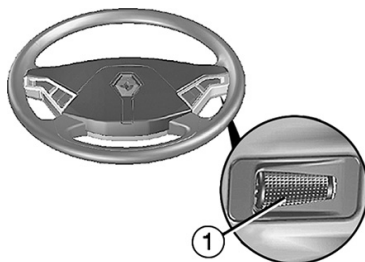
If the vehicle is fitted with an analogue tachograph or no tachograph, the adjustment of local time will be by steps of 1 minute.

F - Units

This theme allows you to choose the unit displayed on the instrument panel: Km/h or Mph.

Choose the unit required via the thumb wheel (1).

Confirm by a press on the thumb wheel (1).



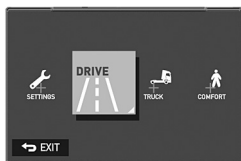


If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.

G - Eco Cruise Control

This menu is used to activate or deactivate the **"controlled free wheel"** system without using the cruise control.

Driving



A - On-board computer

a1 - Vehicle data

This menu displays the following items, cumulative from the beginning of the vehicle's life.



These values cannot be reset to zero.

- a1-1 - Fuel consumption, values calculated while the vehicle is being driven
- a1-2 - Fuel consumption, values calculated while the vehicle is stationary
- a1-3 - AdBlue consumption, values calculated while the vehicle is being driven
- a1-4 - Total engine running hours

a2 - Route data

This menu displays the following items, cumulative since the last reset.

- a2-1 - Fuel consumption, values calculated with the vehicle being driven since the last zero reset
- a2-2 - Fuel consumption, values calculated with the vehicle stationary since the last zero reset
- a2-3 - AdBlue consumption, values calculated with the vehicle being driven since the last zero reset
- a2-4 - Total mileage covered since the last zero reset

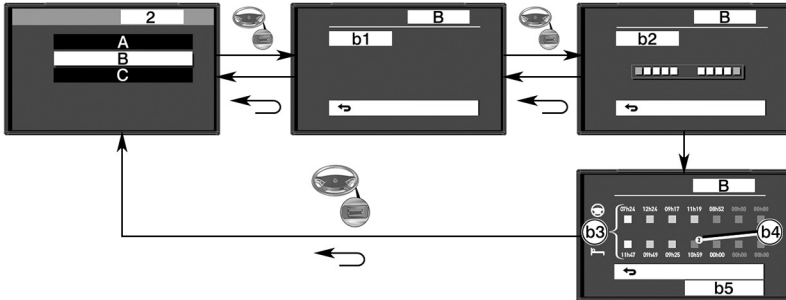
Multifunction information display

- a2-5 - Zero reset of all values



If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.

B - Weekly time



b1 - Driver card not present in tachograph.

Insert driver card in tachograph.

b2 - Data retrieval in progress.

b3 - Data display over a period of 7 days.



The current driving period time and past driving period times are highlighted.

The time for future periods is set at 00:00 and back-lit.

- When the driving time is less than 9 hours, the square representing the period is grey.
- When the driving time is greater than 9 hours, the square representing the period is orange.
- The square representing the current driving time is not in colour.
- For a break greater than or equal to 3 hours and less than 9 hours in the driving time, supplementary information b4 is displayed in the menu.



This information could be added for each driving period.

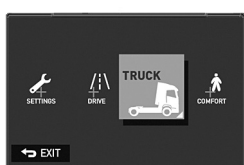
Unknown periods are considered as rest periods.

When an unknown period is detected in the calculation of one of the rest periods, a message b5 appears on the information display.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

Vehicle



A - Maintenance

In this menu, you will have access to the information on the maintenance of:

- a1 - Engine drive belt(s)
- a2 - Air filter
- a3 - Engine coolant
- a4 - APM
- a5 - Gearbox oil
- a6 - Engine oil
- a7 - Brake linings
- a8 - Last brake change
- a9 - Clutch
- a10 - Alternator brushes
- a11 - Starter motor brushes
- a12 - Steering oil
- a13 - Mandatory inspection
- a14 - Tachograph check



When replacing accumulator batteries with others that are different to the original equipment, you must select the "other" option in the accumulator battery type list, which will partially deactivate the functions associated with accumulator battery management and not display any incorrect information.

B - Water-in-fuel drain

Conditions to be met to drain water from the primary fuel filter:

- Water detected in the primary fuel filter
- Vehicle stationary
- Engine switched off
- Ignition on
- Parking brake applied

When all the conditions are met, select "yes".

A screen shows you the progress of the operation to drain water from the fuel.



To avoid contaminating the ground, you should position a tray underneath the vehicle to recover the fluid and drain in an appropriate location; flat ground, well-ventilated with a means for collecting and processing the fuel-contaminated water.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

C - Diagnostics

In the diagnostic menu, you will be able to access the following options:

- Immobilizer, which that give you the dynamic code to send to the techline, and where you can then enter the code sent by the techline.

The window will then inform you whether the PIN is valid.

The menu will be automatically closed after a delay of 3 seconds.

- Computer references

Gives you information on the computers and software versions on board.

- Fault(s)

List the fault codes present.

D - Downloading software updates

When the message "Update software" is shown in the instrument display, new software is available to update the truck.

The estimated time (1 to 60 minutes) required to update the truck with the new software is shown before the update starts.

During the update, the truck may not be used in any way and many functions are disabled. Therefore, plan the update for an appropriate time.

You can start the update when the message appears or for a later time. If you want to update later, press the back button on the steering wheel to close the message.



The truck must not be started, moved or used in any way during the update. The remote control must be on board and the vehicle must be in contact mode.

Launching the update

Park the truck on level ground.

Switch off the engine.

Put the vehicle in contact mode and leave it in this position throughout the update.

If the message still appears on the display, select "Continue". If the message has been closed, go to the "Maintenance" menu on the instrument panel display and select "Software update".

Follow the on-screen instructions.

At the end of the download, the message "Update complete. The vehicle is now ready for use." is displayed.



If the message "Update failed. Truck is not drivable due to safety precautions." is shown or the display remains black. An unusual critical fault has occurred. Call Uptime service to get support.

Telephone number +800 777 500 00 (free of charge).

E - Information display test

The self-test checks the operation of the instrument panel instruments.

F - Engine idle adjustment

Requisite conditions for use:

- vehicle stationary.
- engine at idling speed.
- - accelerator pedal released,
- parking brake applied,
- brake pedal depressed during adjustment.

In this menu, you can:

- reduce the idling speed,
- increase the idling speed,
- confirm the setting.



In the event of adjusting the idle speed too quickly, it will not be possible to confirm it.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

G - Air conditioning

"Air Quality" system sensor

You can activate or deactivate this sensor. It is used by the **"fully automatic"** version of the air conditioning system, and serves to measure the quality of the air entering the cab.

In the event of poor air quality, the recycling flap closes automatically.



*The "Air Quality Sensor" information is used when the control panel **"Eco"** mode is activated.*

Automatic demisting

This is a probe mounted on the windscreen that detects the appearance of mist.

In this case the **"full automatic"** version of the air conditioning system is suitable for demisting the windscreen automatically.



The automatic de-misting information is used in all the air conditioning operating modes.

These 2 probes can be deactivated via the menu to enable you to resume control over the automatic mechanisms if operation does not satisfy you.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

H - Dynamometer mode

- h1 - Activated
- h2 -Deactivated



When a menu is greyed out, check that all the conditions required for accessing this menu are present.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*

Comfort



Rain sensor

In this menu, you can activate or deactivate the rain sensor.



When a menu is greyed out, check that all the conditions required for accessing this menu are present.



*If there is no action on the button for approximately 30 seconds, the multifunction information display reverts directly (**without confirmation**) to the driver's favourite information.*



Living

Living

Electrical power outlet

Power outlets (24V and 12V) are available in the instrument panel and in the rear section of the cab. These are intended for optional equipment.



Electric windows

The electric window controls allow you to raise and lower the windows by just pressing a button. From the driver's seat, you can control your side and the passenger side.

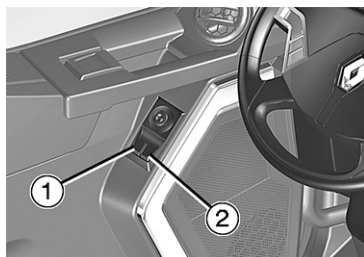
Electric window controls

Driver's side

- (1) - Left side window control.
- (2) - Right-hand side window control.

Use of controls

To lower: press on the front and hold control (1) in the intermediate position (between the resistance point



and the released position); the window lowers for as long the button is held.

To raise: pull on the front and hold control (1) in the intermediate position (between the released position and the resistance point); the window rises for as long as the button is held.

Automatic operation

To lower or raise the driver or passenger window automatically, press or lift control (1) or (2) then release it.

Any action on control (1) or (2) while a window is going up or down automatically will stop its movement.

Passenger side

(1) - Right-hand side window control.

Use of controls:

To lower: press on the front of control (1) until the hard spot; the window lowers as long as the button is being held.

To raise: pull on the front of control (1) until the hard spot; the window rises as long as the button is being held.



Roof ventilation hatch

The cab is fitted with a roof hatch intended for ventilation and to give light.

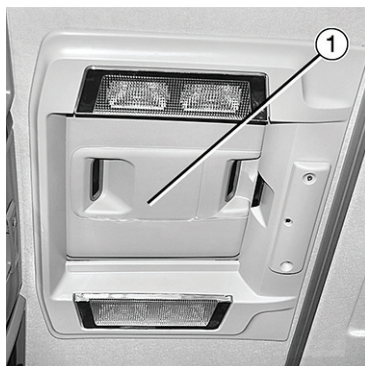
Opening

Push ventilation hatch (1) to the required opening position.

Closing

Return the ventilation hatch to its initial position.

Before leaving your vehicle, as a precaution, ensure that the roof vent is closed properly.



Before leaving your vehicle, as a precaution, ensure that the roof vent is closed properly.

Insect screen

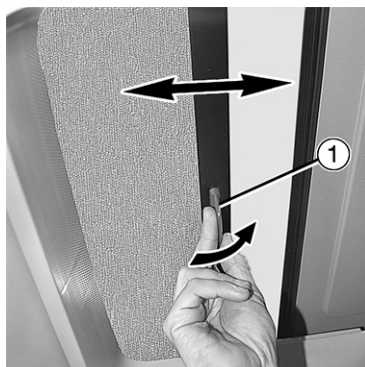
For your comfort, the roof vent is fitted with an insect screen.

Closing

To close the insect screen, pull lever (1) on the front until it locks.

Opening

To open the insect screen, turn lever (1) upwards to unlock it and hold it there until the insect screen has opened completely.



To avoid damage to the insect screen when opening it, do not let go of the lever (1).

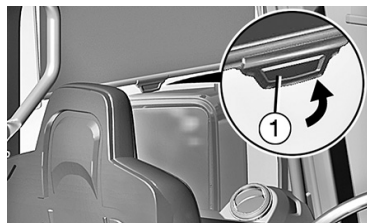
Sun blinds

The sun blind protects you from dazzling daylight. When used correctly, they help to improve road safety.

Side sun visors

To lower the sun visor, pull lever (1) to the position required.

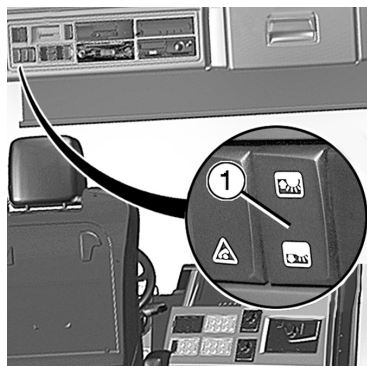
To raise the sun visor again, rotate lever (1) and hold it until the position required is obtained.



Front sun visor

To lower: press on the bottom of control (1).

To raise: press on the top of control (1).



Front sun visor extension

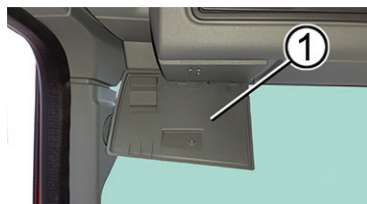
Press on sun visor extension piece (1) to unlock it.



Do not pull on flap (1) to open it, simply press on the raised area. It is a "push-push" system.



To close sun visor extension piece (1), lift it until it unlocks.

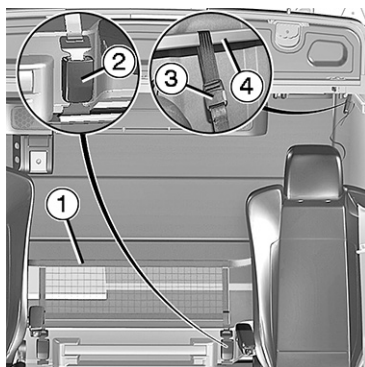


Bunks

The truck is fitted with a bed for rest and sleep. The sleeping area is spacious and the bed has a mattress which is known to be one of the most comfortable on the market. You can obtain a large storage space by folding back the bed. The equipment also includes a safety net.

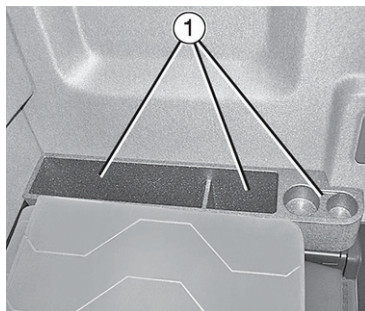
The truck is fitted with a bed for rest and sleep. The sleeping area is spacious and the bed has a mattress which is known to be one of the most comfortable on the market.

The lower bunk can be used as a storage space; in this case you absolutely must use the retaining net (1). Attach restraining net (1) using clips (2) and straps (3) around bars (4).



Lower bunk storage areas

The lower bunk has storage compartments (1).

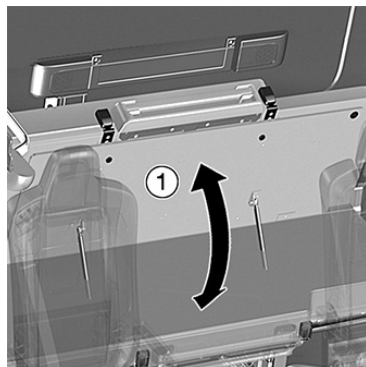


Storage compartment(s)

The truck is fitted with large and ingenious storage spaces in the cab.

Under-bunk storages

Raise lower bunk (1) to have access to storage lockers (3) and (4).

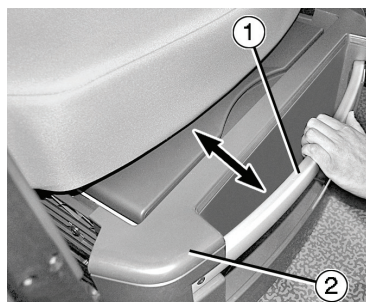


Storage compartment (2)

Unlocking

Move your hand behind handle (1) of refrigerator (2); an electric contact unlocks the drawer; pull refrigerator (2) forwards.

There are two possible opening positions. To release the retainer and open the compartment fully, unlock the ignition a second time by touching the handle (1) again.



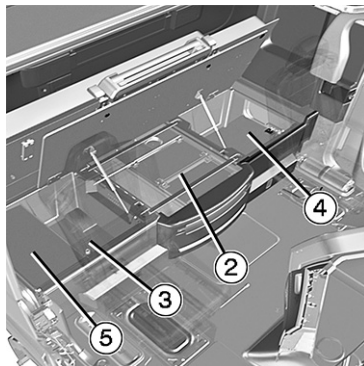
Closing

To close the storage compartment again, place your hand behind handle (1); an electrical contact unlocks the drawer.

Push storage compartment (2) until the lock engages automatically.



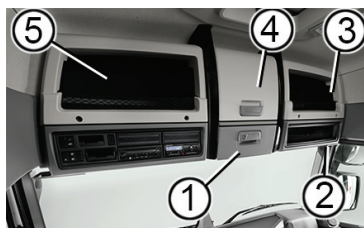
Do not place a load greater than 3 kg on drop-leaf table (5) of storage compartment (3).



Upper header shelf storages

(1) (4) Storage compartment. To open, pull on the door handle. To close, push the door until the lock engages automatically.

(2) (3) (5) Shelves with storage nets.



Avoid storing articles that are too heavy which could fall and cause injury or damage.

Maximum load supported by each storage area in the overhead ledge:

(6) - (7) - 11.8 kg each side.

If necessary, empty the header shelf storage before tilting the cab.

(1) - Storage compartment.

(2) - Shelves.

To open, pull on the door handle.

To close, push the door until the lock engages automatically.



Avoid storing articles that are too heavy which could fall and cause injury or damage.

Maximum load supported by each storage area in the overhead ledge:

(1) - 1.8 kg.

(2) - 1.8 kg.

If necessary, empty the header shelf storage before tilting the cab.

Sun visor extension with card-holder function

To access the card holder, there are two solutions.

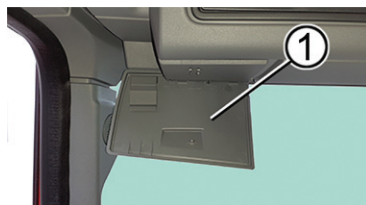
Press on flap (1) to access card holder (2).



Do not pull on flap (1) to open it, simply press on the raised area. It is a "push-push" system.



To close flap (1), lift it until it fastens.



Access card holder (2) via gap (3) in the upper header shelf storage.

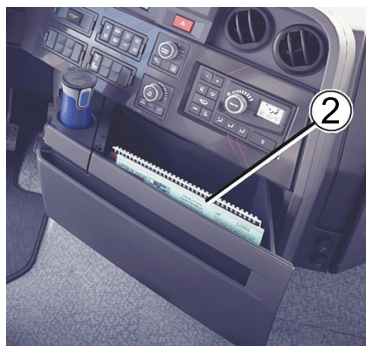


Dashboard storage compartments

To open the dashboard storage drawer, place your hand in the handle (1), press firmly on the unlock latch, then gently pull the drawer towards you.



A space between the front of the drawer and the flap (2) is provided for storing A4 sized documents to prevent them getting lost or damaged.



Cup holder

The cup holder (3) is located near the steering wheel. Pull up to use. Push down to store away.



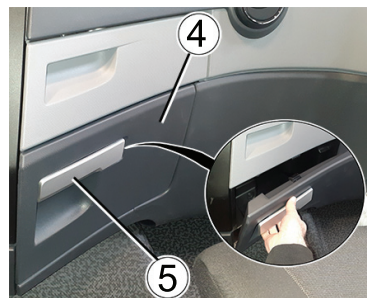
Lower glove box (4).

Opening

Lift handle (5).

Closing

Push the door until the lock engages automatically.



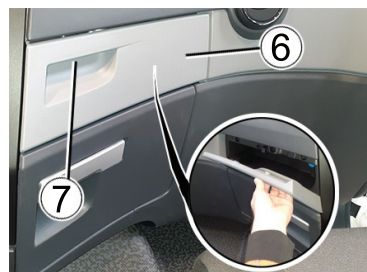
Upper glove box (6).

Opening

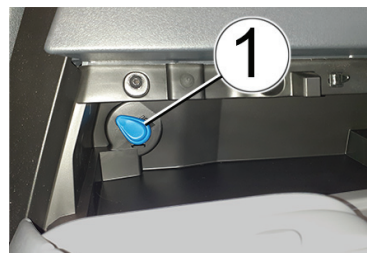
Pull handle (7).

Closing

Push the door until the lock engages automatically.



Turn the valve (1) to cool the glove compartment.



Area (1) is covered with a non-slip surface.





Use area (1) only when the vehicle is stationary. It must be free from any articles when driving or when tilting the cab.

Other accessories

Your Renault Trucks cab is fitted out to give you maximum comfort.

More comfort, less fatigue and therefore safer.

Cab overhead lights

Overhead lights

Depending on your vehicle's equipment

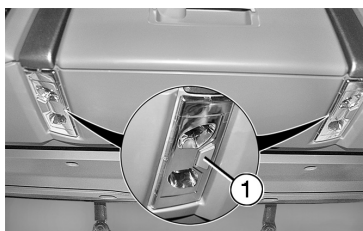
Button (4) lights overhead lights (2) in the cab and the lighting above the doors at maximum power.



Overhead ledge overhead light

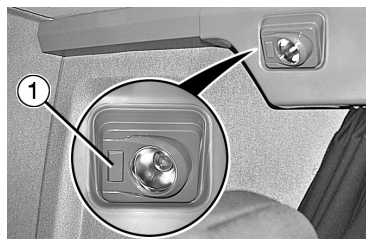
Each lighting module on the header shelf has a switch (1), an overhead light and a map light.

The overhead light and the map light are LEDs controlled by switch (1).



Bunk overhead lights

Each bunk overhead light has a light switch (1).

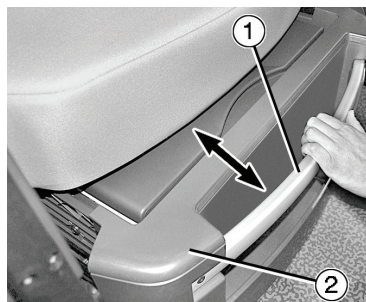


Refrigerator

Unlocking

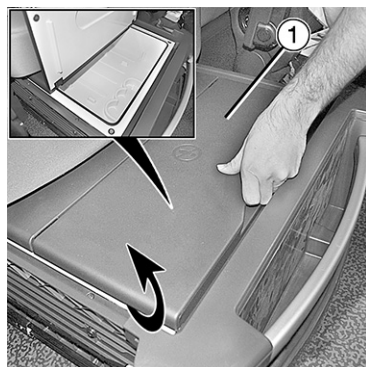
Move your hand behind handle (1) of refrigerator (2); an electric contact unlocks the drawer; pull refrigerator (2) forwards.

There are two possible opening positions. To release the retainer and open the compartment fully, unlock the ignition a second time by touching the handle (1) again.



Partial opening

With the vehicle stationary, partially open the refrigerator by lifting cover (1).



Complete opening

With the vehicle stationary, lower bunk up, open the refrigerator completely by lifting and folding the cover (1).

Locking

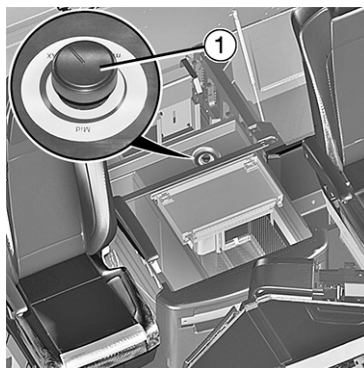
Push refrigerator (2) until the lock engages automatically.



Operations

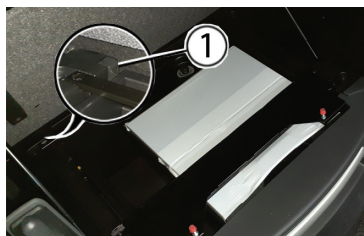
A thermostat (1) regulates the temperature.

To stop the refrigerator, position thermostat on "0".

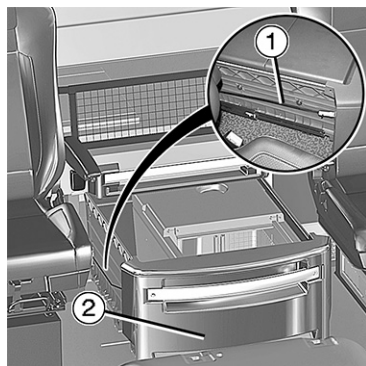


In the event of an electrical power cut

You can unlock drawer (2) of the refrigerator using button (1).



To close the drawer again, pull on cable (1) horizontally, towards the front of the vehicle and push drawer (2) of the refrigerator until the catch engages automatically.



Tablet holder

Depending on your vehicle's equipment

This equipment is intended for the exclusive use with the **"MIXER ROLLOVER ALERT"** function on the tablet.



During driving, this equipment must never be used for viewing movies, videos or other similar applications which could distract your attention and prove to be dangerous.

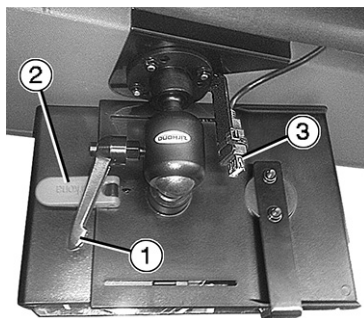
Tablet holder (1) is used for installing a 7 or 8-inch tablet with a maximum weight of 0.5 kg.



Adjustment of the tablet holder:

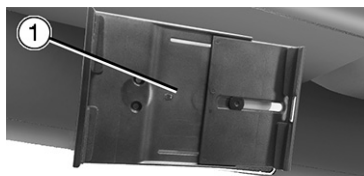
- adjust the tablet holder using control (1),
- adjust the holder to the size of the tablet using control (2).

To connect the tablet to the electrical power supply, use USB (3) to provide a maximum power supply of 5 V/2 A.



Two models of tablet holder are available:

- an adjustable tablet holder (1) depending on the size of the tablet
- a cross-piece adaptor (2) (VESA 75) for the installation of other compatible tablet holders.



You must always maintain control of your vehicle, adapt your speed and driving to traffic conditions (weather conditions, road surface condition, traffic) and abide by the highway code and legislation. You must, at any moment, be able to react in a suitable manner and to perform appropriate manoeuvres in a professional manner. You must always behave in a careful and respectful manner with regard to other road users (vehicles and pedestrians).



RENAULT TRUCKS cannot be held responsible for the incorrect or inappropriate use of this equipment.

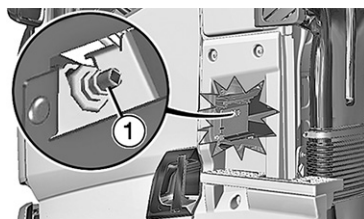
IN no case can RENAULT TRUCKS be liable for any damages to the user or third parties in the event of damage to equipment or personal injury associated with or caused by the use of this equipment.

Compressed air adapter for accessories

Adaptor for an air gun (1).



It is prohibited to drive with an accessory connected to the air line.



Telephone cradle

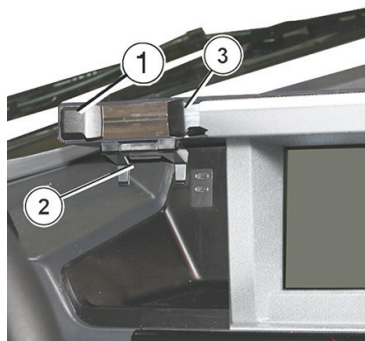
This equipment is intended exclusively for the use of applications in line with the transport applications available on the telephone.



While driving, this equipment must never be used for viewing movies, videos, messaging, telephone calls or other similar applications which could distract your attention and prove to be dangerous.

To install your telephone on the cradle:

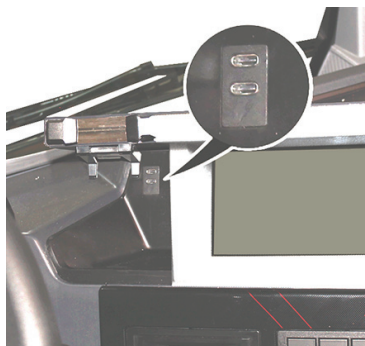
- move the slider (1) to the left,
- unfold the holder grips (2).
- place your device on the holder (2). Position it correctly in the cradle groove and against the slider (3),
- fold down the slider (1) to adjust and secure the telephone to the holder.





This positioning can hold devices under 7".

USB ports are available behind the telephone holder to connect the phone to the electrical power supply.



The tablet holder includes a magnet. If too close, there is a risk of it interfering with certain electrical devices or magnetic media such as bank cards, USB keys, pacemakers, etc.



RENAULT TRUCKS cannot be held responsible for the incorrect or inappropriate use of this equipment.

In no case can RENAULT TRUCKS be held liable for any damages to the user or third parties in the event of damage to equipment or personal injury associated with or caused by the use of this equipment.

Secondary display

Secondary Information Display

The secondary information display shows the information for the infotainment system, particularly the audio and telephone but also the radio, the navigation system and the camera, if the truck is fitted with these functions. The information display has its own menu and can display messages for each respective function.

General presentation of controls

Satellite control steering wheel underside

1/ Control thumbwheel (located on the rear of the satellite control)

General: From top to bottom: equivalent to Next

General: From bottom to top: equivalent to Previous

Radio: Station or frequency (auto mode) next/previous

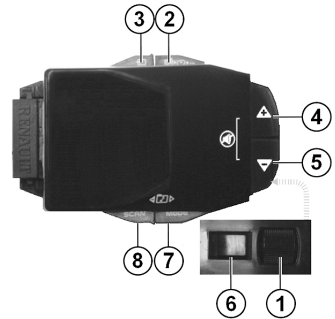
USB*/iPod*/BLUETOOTH*: Next/preceding track

2/ Source button

General: Select the source: FM/AM/USB*/iPod*/AUX*/BLUETOOTH*

USB*: Can be selected if a USB device is detected

BLUETOOTH*: Can be selected if a device with audio streaming functionality is connected.



3/ Display Button

General: Display of audio information or return to previous page from the media player screen.

4/ Vol + Button

General: Increases the volume

Telephone*: Pressing Vol+ and Vol- simultaneously: activates telephone secret mode

5/ Vol - Button

General: Decreases the volume

Telephone*: Pressing Vol+ and Vol- simultaneously: activates telephone secret mode

Pressing Vol + (4) and Vol - (5) simultaneously: cuts the sound (mute) or stops USB/BLUETOOTH playback (pause)

6/ - Audio button (located on the rear of the satellite control)

General: Audio Adjustment

7/ - Mode button

Radio: Changes mode

MP3/USB*: Next folder (+)

8/ Favourites button

Radio: saves or deletes a favourite.

MP3/USB*: previous folder (-)

Steering wheel controls

9/ Exit button

General: Scroll back through the menus.

10/ Menu button

General: Call the menu

11/ Scroll wheel (located on the rear of the remote control)

General: Short press: confirms a selection in the menus
Rotation, navigation between menus

12a/ Pick up button*

Telephone: Short press: Accept a call

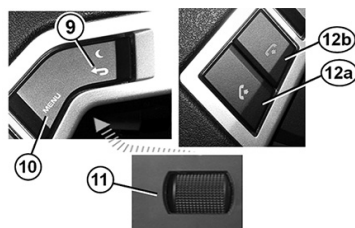
Short press: Display contact list/call history

Press and hold: Transfer the call from the radio to the telephone during a call (and vice versa)

12b/ Hang up button*

Telephone: End a call

Reject a call



Switching on the system

The system starts automatically when the vehicle is switched to "Accessory" or "Run" mode. If not, press the "On/Off" button on the screen.

There may be a delay of approximately 2 minutes during system startup.

*Depending on the external peripherals in your possession, and connected to the system.

Switching the system off and entering standby mode

To switch the system to standby mode, you may:

- put the vehicle in stop position using the START/STOP button.
- press the "On/Off" button on the screen.

The system is installed with a screen saver that deactivates the information display after 15 minutes of inactivity. Touch the information display to reactivate it.

On an "ADR" vehicle, when the main switch is used to cut off the power supply, the system stops operating completely.



In order not to lose any data, it is essential not to activate the main switch before removing the driver's card from the tachograph or switching off the ignition.

Screen

Press the On/Off button on the control console to switch the system on or off.

When the system is in operation:

Pressing and holding (for more than two seconds) switches off the system.

A short press switches off the screen only, to prevent its brightness from being distracting inside the cab.

The touch screen is used for navigating within the menus, either using the steering wheel-mounted control or the remote control unit, depending on vehicle equipment level.

Technical description

The driver interface is composed of a touchscreen (1) built into the instrument panel.

The screen is of the touch screen type; use your fingers to navigate through the system.



Secondary Information Display



Do not use any objects (pen, pointed objects) which could damage the surface of the screen.

Maintaining the screen

With the system switched off, clean the screen with a soft, clean cloth.

To clean the plastic parts, use ordinary cleaning products used for the interior of the cab. First test the product on a slightly hidden part to ensure the product does not damage the surface.



Never open the screen unit.



Take care not to spill liquid on the screen.

Menus

1/ Back arrow

Return to previous menu.

2/ Contextual menu

Displays the different options according to location within the menu.

In the home screen, this provides access to secondary applications, sound effect selection or restarting the system.

3/ Audio

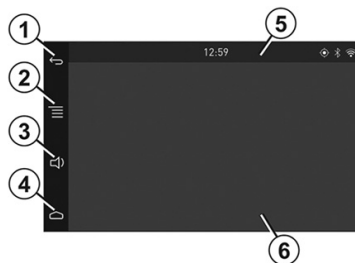
Shortcuts to audio settings.

4/ Home

Return to home screen.

5/ Android Notifications Bar

Select the Android notifications bar to display and use active applications.



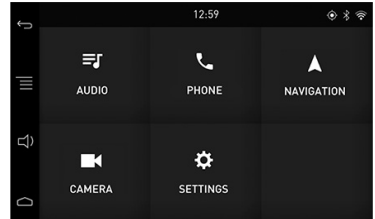
6/ Main applications grid

Depending on your vehicle's equipment

Applications appearing in area 6 of the information display are dependent on the truck equipment level.

Available applications (up to 5 menus, depending on options) are:

- Navigation
- Camera
- Audio
- Telephone
- Settings



Audio Mode

Radio, USB and Bluetooth

Introduction

The following pages explain the general operation of the Renault Trucks USB/Bluetooth model audio system.

The audio system information is displayed on the secondary display.

The audio system may be controlled in three different ways:

Via the touch screen buttons

Using the steering wheel satellite control

Using the bunk remote control (depending on equipment level)

The main audio system sources are as follows:

radio (FM, AM and DAB)

USB*

Auxiliary input for audio devices*

Bluetooth Streaming Audio Mode* (Bluetooth equipment)

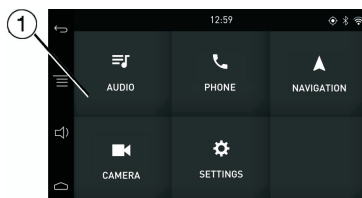
Deezer

STOP

CURRENT TRAFFIC CONDITIONS REQUIRE THAT THE DRIVER PAYS FULL ATTENTION TO THE ROAD AT ALL TIMES. YOU SHOULD REMAIN FULLY FOCUSED ON THE ROAD WHEN OPERATING THE AUDIO SYSTEM WHILE DRIVING. ONLY OPERATE THE SYSTEM WHEN THE TRUCK IS STATIONARY. REMEMBER TO REMAIN FOCUSED ON THE ROAD.

Audio system menu

Select the audio system menu (1).



* In the pages of the *car radio* chapter, a star means "applicable if your vehicle is equipped with USB/Bluetooth"

Secondary information display indicator guide for the audio system

List of sources

To select an audio source, either touch the screen directly or scroll through using satellite control source button (2).

1/ FM-AM

For accessing FM and AM radio stations.

2/ DAB

For accessing DAB radio stations.

3/ USB*

Displayed if a USB device is detected

4-5/ Bluetooth Streaming Audio*

Is displayed if a device with audio streaming functionality is connected to the radio.

6/ Auxiliary mode

For using an auxiliary device connected to the system.

7/ Shortcut to Deezer

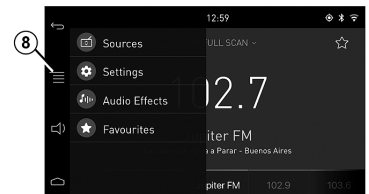
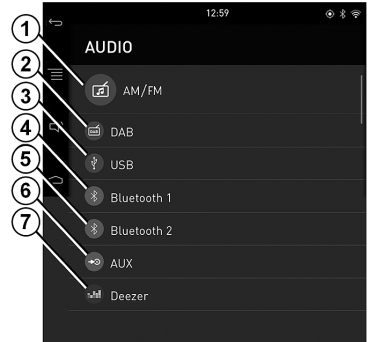
Requires Internet connection and site subscription. For listening to streaming music.

Different screens may be displayed, depending on the selection made.

8/ Contextual screen

The contextual menu provides access to different options, depending on the screen from which you are viewing it. In radio mode, for example, you may access the source, settings, audio effects and favourites menus.

- Source: return to the source menu.
- Settings: select whether or not to activate the AF-AM/TA/News Alert/PTY functions, set the

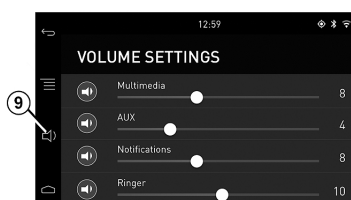


frequency gap for FM scanning and selecting the region.

- Audio effects: adjusting the equalizer, loudness and balance.
- Favourites: managing your radio stations saved in favourites.

9/ Volume settings screen

The volume settings menu allows you to set the audio volume of different functions independently. Pressing the icon opposite each function mutes the system. Pressing the + (4) and - (5) buttons on the satellite control simultaneously also mutes the system. To exit mute mode, press the + or - buttons on the satellite control or press the mute icon on the touch screen.



Media player page

10/ Access to the tuner screen

Depending on the source in use, pressing the status bar opens the manual search, favourites and can options.

- For the FM source: access to favourites, search in FM/AM list mode and manual.
- For the AM source: access to favourites and manual
- For the DAB source: access to favourites and search in FM/AM list mode.



Mode button (7) on the satellite control is used for navigating the favourites mode, FM/AM list and manual

11/ Favourites

Pressing once saves the station in favourites.

Pressing button (8) on the satellite control also saves the station in favourites.

12/ AF/TA mode

Indicates whether the AF and/or TA modes are activated.

Using the audio system in complete safety

In particular when driving

Current traffic conditions require that the driver pays full attention to the road at all times. You should remain fully focused on the road when operating the audio system while driving. Therefore, when driving it is recommended that you:

STOP

ENSURE THAT THE VOLUME OF THE AUDIO SYSTEM DOES NOT MASK EXTERNAL NOISE. AVOID CONNECTING AN EXTERNAL AUDIO SOURCE (E.G. USB* SOURCE) WHILE DRIVING. IF AVAILABLE, USE THE SATELLITE CONTROL TO CHANGE STATIONS OR TRACKS ON THE USB*/IPOD*.

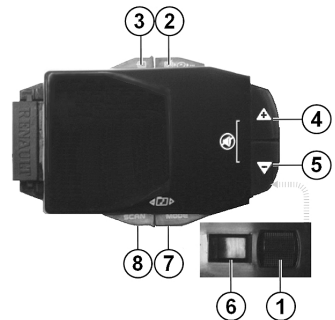
Radio source

Source selection (AM-FM and DAB)

To select the radio frequency band (AM-FM/DAB), press the audio button on the main screen. Next select AM, FM or DAB.

or

Press the Source button (2) on the satellite control to select AM-FM or DAB from the sources listed.



Radio search functions

To access the favourites mode, press "mode" bar (10) and select "Favourites".

To access the search list mode, press "mode" bar (10) and select "search list".

To access manual search mode, press "mode" bar (10) and select "manual search".

It may also be accessed via the contextual menu.

Select the station required in the bottom bar.



To search for a station in List mode, scroll through the stations or frequencies on the secondary information display screen. You may also use satellite control thumbwheel (1).

Press audio button (2), mode (7) or Scan button (8) on the satellite control to access the station search.

OR

Rotate thumbwheel (1) on the satellite control.

OR

In radio mode, open the contextual menu and select source, manual or analog tuner, then Manual FM, Manual AM, favourites or full scan.

Radio Data System (RDS)

RDS is used by numerous European radio stations. It is a system through which the stations broadcast additional, inaudible signals in addition to radio broadcasts, which are decoded by the car radio RDS receiver. The parallel flow of information fulfils the following functions:

Programme identification (PI code)

The car radio identifies the station being received by decoding the PI code (for example "BBC", "EUROPE1").

Programme name (PS code)

The name of the radio station appears on the display based on the PS code.

Alternative Frequency (AF)

The range of FM transmitters is quite restricted. Therefore, many stations have different, "alternative", frequencies over which they transmit. In this way if the AF function is activated, the driver can listen to the selected station continuously, without needing to change frequencies. The audio system changes from one frequency to another almost imperceptibly and the station name remains unchanged on the display (provided there is a station transmitter in the area).

Traffic information (iTraffic)

This code is displayed when the audio system is tuned into a station able to transmit traffic information.

Additional information relating to other networks (EON code)

For example, in France if a network operates FR1, (Frequency 1), FR2 and FR3, this network may broadcast traffic information via any of its stations. If you are listening to FR1 and traffic information is being broadcast on FR2, this function will change the station (from FR1 to FR2) so that you can listen to updates. Once the traffic announcement ends, the receiver tunes back to FR1. Note: this change only occurs if iTraffic is active.

Emergency announcement (RDS code PTY31)

In the event of a serious incident, an emergency announcement is transmitted as a priority over the other functions.

USB* source

For a reminder of the satellite control button locations, please see the "General overview of controls" section.

The formats supported by the USB* drive are: MP3/WMA/CDDA/AAC.

There are three ways of switching to USB mode:

From the main menu.

By connecting a compatible USB source to the car radio. (USB socket nearby).

By pressing satellite control Source button (2) until "USB" is displayed on the screen (if a USB source is connected).

The following warning light appears if a USB peripheral is detected:



Note: not all USB media are compatible with the car radio, only "mass storage devices" (external storage) and similar devices are compatible (passive equipment, such as "USB sticks" without integrated software, equivalent mp3 players and some phones). If the equipment is detected but not recognised, a message appears on the screen; If the device is not detected, no message is displayed.



It is recommended that you do not disconnect a USB source during playback. Change the source (switch to radio mode, for example) or turn off the audio system before disconnecting the device. Moreover, instead of connecting the USB device directly to the socket, use of an intermediate cable is recommended.

Changing track

There are two ways of changing track

On the secondary information display screen.
By using thumbwheel (1) on the satellite control.

Changing album or folder (USB* mode only)

To move to the previous album or folder without scrolling through every track, briefly press the Mode button (7) folder (+) on the satellite control.

To move to the next album or folder without scrolling through every track, briefly press the Scan button (8) folder (-) on the satellite control.

Bluetooth® streaming audio* source

For this source to be available, an audio streaming-compatible Bluetooth device must be connected to the audio system. Refer to the "Bluetooth Connection" section for connection details.

Switching to Bluetooth audio streaming mode

There are two ways of switching to BLUETOOTH STREAMING AUDIO mode

Via the audio menu.

By pressing button (2) on the satellite control until "BLUETOOTH" is displayed.

Changing track

There are two ways of changing track on a Bluetooth® source:

By using thumbwheel (1) on the satellite control.

By changing directly using the Bluetooth device.



- The operating mode described above for changing tracks will work with the majority of Bluetooth devices. However, it is possible that on some device models it will only be possible to change tracks on the device itself.

- Due to the diverse range of Bluetooth devices available on the market, the following functions are not available via the radio on the Bluetooth Streaming Audio source:

- Fast Forward
- Rewind
- Random playback
- Repeat playback
- Folder navigation



If the Bluetooth device is disconnected during playback, the radio will automatically return to tuner mode in the station last listened to.



If the Bluetooth® connection is not stable (lost connection, limited functionality, etc.), switch your Bluetooth® device off then on again.

AUX* source

There are two ways of switching to Aux mode.

From the main menu.

By pressing satellite control Source button (2) until "USB" is displayed on the screen (if a USB source is connected).

The following warning light appears if AUX is the active source:

Note: the AUX input is passive, therefore it is not possible to use equipment connected via the satellite control or via the control screen, except for volume adjustment or changing the audio source (e.g.: returning to Radio mode). Note also that AUX mode is accessible even if no equipment is connected.

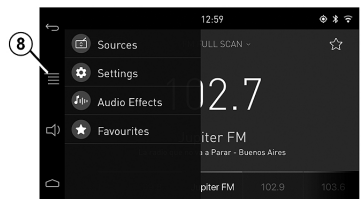


The audio volume of an AUX source may differ from other sources (radio, etc.) and depends on the connected equipment. Therefore it may be necessary to adjust the volume to a level quite different from the usual level.

Audio Mode

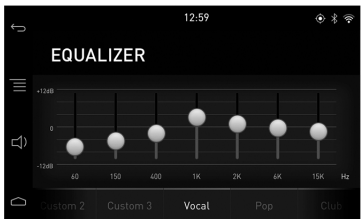
Audio settings

Settings may be accessed from the main screen or via contextual menu (8):



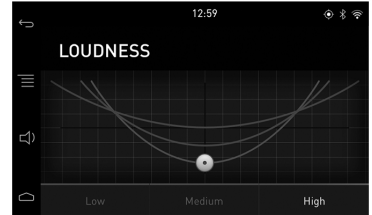
Equalizer

The equalizer function filters or amplifies different audio frequency bands.



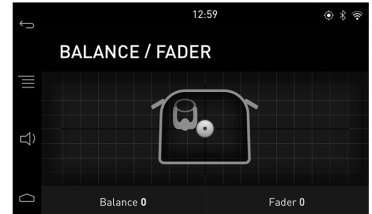
Loudness

Adjusts the audio frequency correction to obtain a louder sound at low volume levels.



Balance/Fader

This setting is only fully accessible if the cab is fitted with rear loudspeakers.



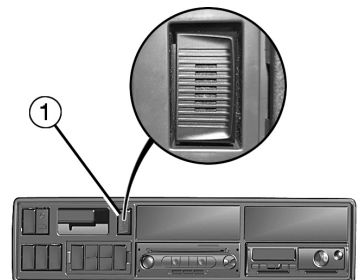
Location of radio peripherals

Depending on your vehicle's equipment

Header shelf

(1) - Microphone

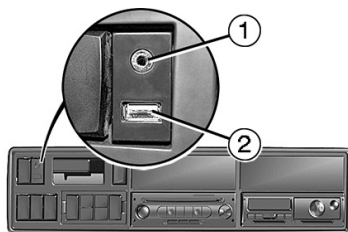
The microphone is used in the telephone hands free mode with Bluetooth functionality.



(1) - Auxiliary socket

(2) - USB socket

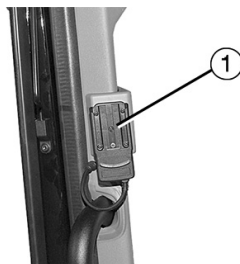
The auxiliary and USB sockets are used to connect to an external source compatible with the radio.



Depending on your vehicle's equipment

Telephone cradle

If your vehicle is fitted with the telephone cradle option (1), visit the website www.carcommshop.com/renault-trucks to order the interface corresponding to your telephone.



Telephone

STOP

CURRENT TRAFFIC CONDITIONS REQUIRE THAT THE DRIVER PAYS FULL ATTENTION TO THE ROAD AT ALL TIMES. YOU SHOULD REMAIN FULLY FOCUSED ON THE ROAD WHEN USING YOUR TELEPHONE WHILE DRIVING. ONLY OPERATE THE SYSTEM WHEN THE TRUCK IS STATIONARY. REMEMBER TO REMAIN FOCUSED ON THE ROAD.

Bluetooth connection *

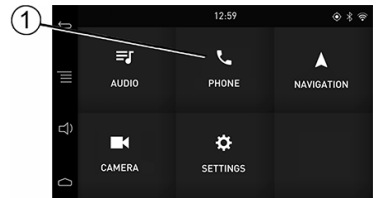
Bluetooth® functions are only available when the system is switched on. To pair a device, ensure that Bluetooth® is activated on that device.

Activating and deactivating Bluetooth®

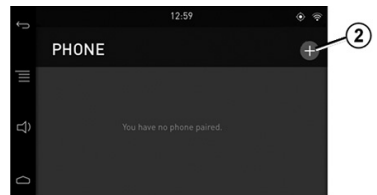
Adding a device

This operation consists in pairing a Bluetooth® device. This means establishing a connection between the system and the Bluetooth® device in order to add it to the list of paired devices.

Select the telephone menu (1).

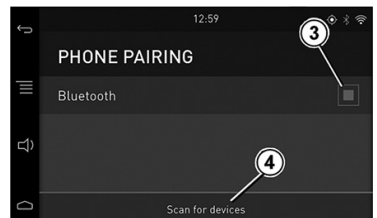


Select the + icon (2).



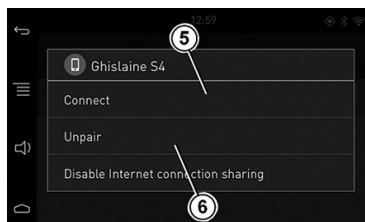
If necessary, activate Bluetooth® (3).

Select scan (4).



Secondary Information Display

When your device appears in the list, select it. Depending on your requirements, press on Connect (5) or Unpair (6).



If the telephone is out of Bluetooth range, selecting it will also open up the pairing prompt.

Up to 10 different telephones may be paired.

If two telephones are already paired, and connected, one of them must be disconnected in order to pair an extra telephone.



If the Bluetooth® connection is not stable (lost connection, limited functionality, etc.), switch your telephone off then on again.

If the connection is still unstable after switching your telephone off then back on again, check the compatibility of your telephone, or contact your usual Renault trucks garage.

Telephone/hands-free mode*

For this function to be available, a telephone-compatible Bluetooth device must be connected to the car radio. Refer to the "Bluetooth Connection" section for connection details.

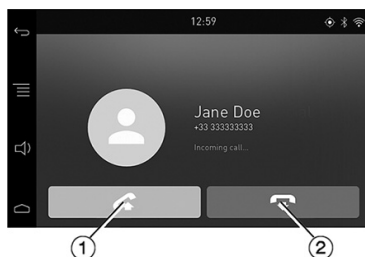
Incoming call

There are two ways to answer an incoming call:

Press button (1) on the secondary information display.
Press the button (12a) located on the steering wheel.

There are two ways to reject an incoming call:

Press button (2) on the secondary information display.
Press the button (12b) located on the steering wheel.



Hanging up after a call

There are two ways to hang up:

Press button (2) on the secondary information display.

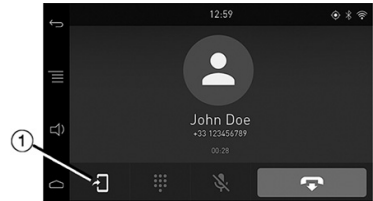
Press button (12b) located on the steering wheel.

For a reminder of the satellite control button locations, please see the "General overview of controls" section.

Transferring a call

This action stops the hands-free function and transfers the call to the phone. To do this, press and hold button (12a) on the steering wheel or press button (1) on the secondary information display.

This function is only accessible during a call.



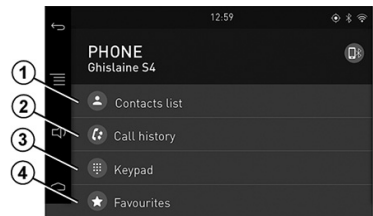
Making a call (directory/recent calls)

To make a call (the Bluetooth function must be active and a telephone connected):

Select your telephone in the telephone menu.

Next, select either:

- Contacts list (1)
- call log (2)
- electronic keypad (3)
- Favourites (4)



Press the pick up button to access the call log and select a number from there.

Contacts list (1)

Select your contact and the number on which to call them.

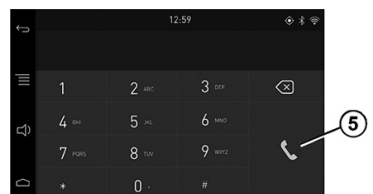
Call log (2)

Select your contact and the number on which to call them.

Digital keypad (3)

Enter the telephone number.

Press button (5).



You are dialling.

Favourites (4)

Select your contact and the number on which to call them.

Volume adjustment

To adjust the call volume:

Using the buttons (4) and (5) on the satellite control.

Directly on the secondary information display.

In the volume settings menu.

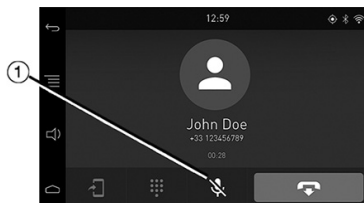


The microphone for the hands-free function is located in the overhead console, close to the driver's head; this function does not work correctly from the bunk.

Secret mode

Secret mode deactivates the hands-free microphone inside the cab. To activate or deactivate this mode, simultaneously press buttons (4) and (5) on the satellite control or mute mode button (1) on the secondary information display.

Once the mode has been activated, icon (1) remains highlighted.



Loss of connection

If the driver leaves his cab, he may lose the Bluetooth connection. The system will then attempt to reconnect automatically for a period of 15 minutes. Once this period of time has elapsed, manual connection is required (refer to the chapter on Connecting a telephone).

Temporary interruption of hands-free mode

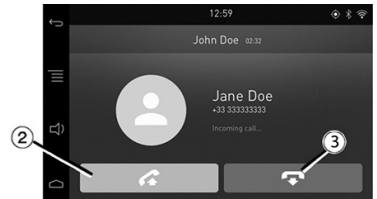
If the driver is operating outside of the cab but in the immediate vicinity, the hands-free function will still be valid, but he will not be able to receive a call on his telephone. In this case, simply switch the radio off to release the telephone. Upon returning to the cab, the driver simply turns the radio back on to reconnect his telephone automatically (if it fails to reconnect, refer to the chapter on Connecting a telephone).

Call-in-call

During a call, you may make or receive a second call.

Incoming call:

The screen displays the incoming call contact. You have the option to accept the call (2) or reject it (3).

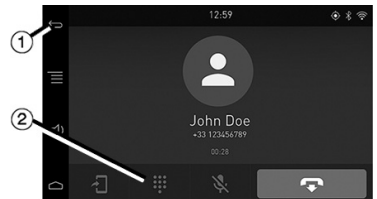


During a call, press back button (1) to display the contacts list.

To dial a call-in-call, select the contact. The first call is placed on hold.

During a call, press digital keypad (2) to display the digital keypad.

To make a call-in-call, enter the telephone number (see digital keypad). The first call is placed on hold.



When you end the second call, the first call will be taken off hold.

Settings



STOP

CURRENT TRAFFIC CONDITIONS REQUIRE THAT THE DRIVER PAYS FULL ATTENTION TO THE ROAD AT ALL TIMES. YOU SHOULD REMAIN FULLY FOCUSED ON THE ROAD WHEN OPERATING THE SYSTEM WHILE DRIVING. ONLY OPERATE THE SYSTEM WHEN THE TRUCK IS STATIONARY. REMEMBER TO REMAIN FOCUSED ON THE ROAD.

Keyboard settings

Keyboard settings

In this menu, you can modify the keyboard settings:

- audio for button presses
- display messages for key presses
- Press to correct words.
- Automatic capitalisation
- Displays the settings button on the keyboard.
- language for keyboard layout Settings for spelling assistance
- quick correct
- display suggestions
- auto-complete for words (predictive text)

System settings

In System settings, the contextual menu provides you with access to the system restart option.

In this menu, you can modify the settings for:

Bluetooth®

Function activation or deactivation.

Audio

Ringtone selection for telephone calls and notifications.

Audio effects

Access to audio settings. See **Audio Mode**.

About

Displays information about the system.

Advanced settings

Provides access to the Confidentiality and Storage menus.

Confidentiality

This menu is used for resetting the system to factory settings. All personal data is deleted. This menu may be used, for example, when selling the truck on to a new owner.

Storage

The storage menu displays the remaining storage space available. Spotify® offline music and map information are displayed here, for example. There is a total of 32 GB storage space.



To change the language on the secondary information display (SID), you must change the language on the main information display. Refer to the Multifunction information display section in the vehicle's Driver Handbook.

Connecting to network

The infotainment system has several options for connecting to networks/internet. It is possible to connect via Wi-Fi®, Bluetooth® and a 3G/4G dongle in the USB socket.

Creating network

The infotainment system can create its own Wi-Fi® network. This provides the option of connecting other devices via the Wi-Fi® in order to share an Internet connection, for example, from a 3G/4G dongle or Bluetooth® device.

WiFi and mobile networks

WiFi®

Connection

The system has multiple options for network connection. You can connect via WiFi®, Bluetooth® or a 3G/4G dongle in the USB port.

If multiple connection types are active, default use is prioritised in the following order:

1. WiFi®.
2. 3G/4G dongle in the USB socket.
3. Telephone/device paired via Bluetooth®.

The WiFi® connection has the highest priority over all connections. If you have multiple connections and you wish, for example, to connect to Bluetooth®, the WiFi® connection must be deactivated.

WiFi®

The WiFi® networks accessible are displayed in this menu. Select the network to which you wish to connect. Enter the password if necessary.

If the network that you wish to connect to is hidden, select "Add WiFi® network". You may now enter your network configuration manually.

The system will reconnect automatically to the networks previously connected where available.

Bluetooth®

In the Bluetooth menu, you may activate the Bluetooth connection and make the system visible to devices.

Searching for devices

In this menu, you can find Bluetooth® devices located at the edge of network range (approximately 10 metre around the vehicle). Detected Bluetooth® devices will be displayed in a list. Click on your selected device to start pairing.

A maximum of 10 devices may be paired in the list. There must be unused entries in the list in order for additional devices to be found and paired.

Mobile data network

Use a USB device

In the "Mobile data network" menu, you can connect the system to the Internet via a USB modem (3G/4G dongle). A USB port is available on the instrument panel (see the general overview of controls section).

Use a Bluetooth® shared connection

In this menu, you can manage a system connection to the Internet via Bluetooth®. Internet connection sharing must also be activated on the Bluetooth® device connected.

Personal access points

You can use this menu to set the data settings in the 3G/4G dongle if the SIM card does not have programmed settings.

Creating a WiFi® Hotspot

You can create a WiFi® Hotspot for connecting other devices to share an Internet connection, for example, from a 3G/4G dongle or from a Bluetooth® device.

Configure the WiFi® Hotspot

To create a network, certain properties must be entered.

- network name (SSID)
- security level
- password (at least 8 characters)

Next, check the "Mobile WiFi® Hotspot" box.

Other devices may now be connected to the system and share its network connection.



Heating - Ventilation - Air
conditioning

Fully automatic air conditioning

The air conditioning/ventilation/heating system cools or heats, and also dehumidifies the cab air. The sensors detect the temperature in the cab to activate the air flow control according to the prevailing weather conditions, and the user's preference.

It is normal for condensation water to run under the truck when it is hot outside.

Heating - Ventilation - Fully automatic air conditioning



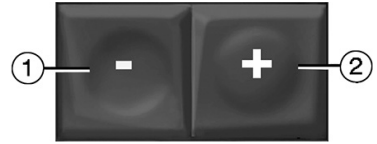
Heating and fully automatic air conditioning controls:

- (1) - Temperature adjustment controls.
- (2) - Ventilation adjustment control.
- (3) - Information display with information on air distribution and the temperature setting.
- (4) - Adjustment memory control.
- (5) - Air distribution controls in cab.
- (6) - De-icing/de-misting control.
- (7) - Air recycling control.
- (8) - Optimised air recycling control.
- (9) - Air conditioning control.
- (10) - Rear view mirror de-icing control.

Temperature adjustment controls

Used to adjust to the temperature required:

- press control (1) to decrease the temperature,
- press control (2) to increase the temperature.



A short press on controls (1) or (2) will decrease or increase the temperature setting on information display (3) by 0.5°C.

Pressing and holding controls (1) or (2) will decrease or increase the temperature setting on information display (3) instantaneously by 0.5°C then by increments of 1°C until the control is released.



Depending on the predefined adjustment value, a few minutes may elapse before reaching the temperature required to judge the result and modify the setting slightly if necessary.

Ventilation control

Manual ventilation mode

This mode activates the ventilation system and displays associated indicator pictogram (3). Rotate control (1) clockwise, the indicator for each position lights up depending on the ventilation speed selected.

To reduce the ventilation speed, turn control (1) anticlockwise; the indicator light for each position goes out depending on the ventilation speed selected.



An anticlockwise action on control (1) beyond the minimum position deactivates the ventilation and the information display.

Air distribution controls

Depending on the position chosen, controls (1/2/3) distribute the air between the different air vents.

Associated with the ventilation control, they optimise the temperature depending on the positioning of these air vents.





When operating in automatic heating comfort mode, a press on one of the controls (1/2/3) cancels this mode and the settings memory feature.

Position 1 Air directed upwards (windscreen and front of side windows) and slight flow on the dashboard air vents.

Position 2 Air directed downwards (to feet) and slight flow upwards (air vents on dashboard and rear of side windows).

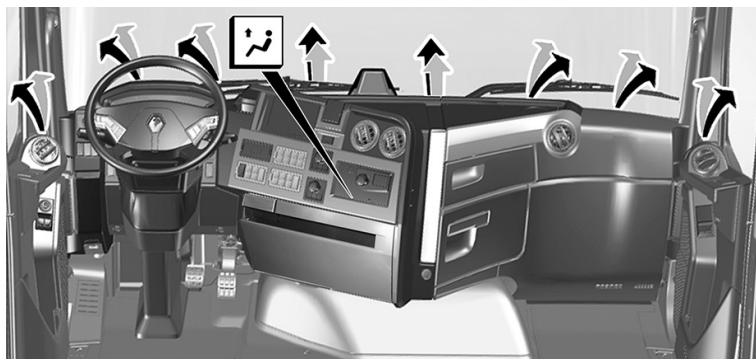
Position 3 Air directed to the middle (air vents on dashboard).

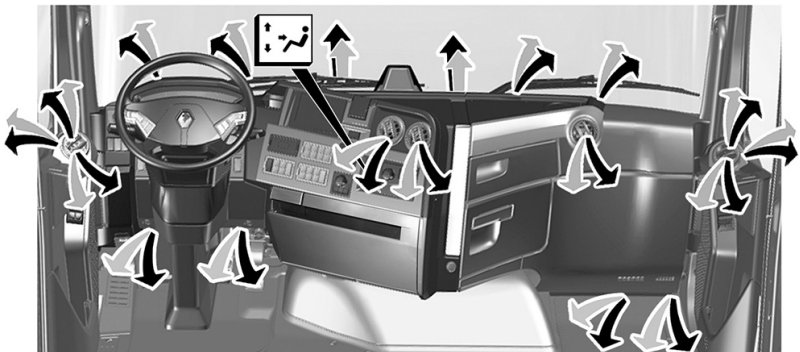
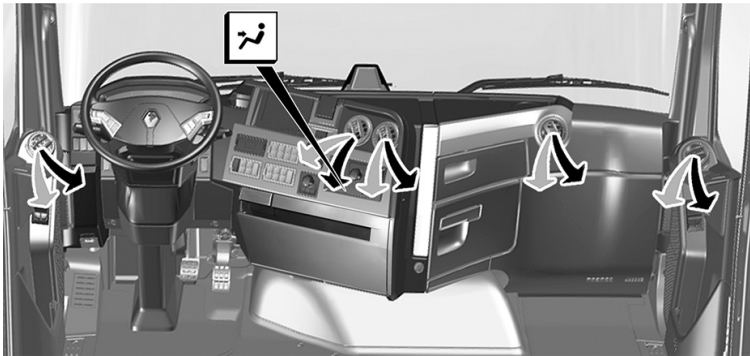
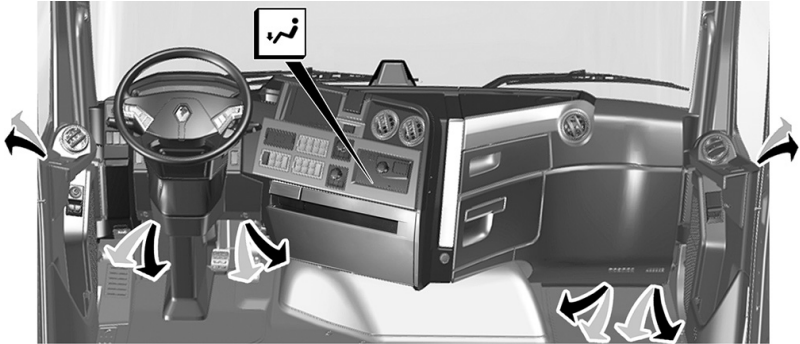


When the side and centre air vents are open, the air flow is distributed between the different air vents selected by each position of control.

To obtain air distribution on the 3 air vent outlet positions, press once on each control (1/2/3).

Dashboard





Air distribution memory control

This function stores the customized air distribution in memory with the option of storing via the driver card.

Air distribution memory feature:



Switch on the ignition, adjust the air distribution and store it in memory by pressing and holding control (1); indicator pictogram (2) is displayed and an audible signal sounds.

The adjustment is stored in memory when the ignition is switched off.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.

Air distribution memory feature via the driver card:

This memory feature allows the driver to find his customized air distribution adjustments when changing vehicles with another driver.

Insert the driver card, switch on the ignition, adjust the air distribution and store in memory by pressing and holding control (1); indicator pictogram (2) is displayed and an audible signal sounds.

The adjustment is stored in memory when the ignition is switched off.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.

Air recycling control

To activate the function, press control (1); indicator pictogram (2) is displayed.

During recycling, the air is taken in the cab interior and it is recycled without taking in external air.

Recycling the air prevents the breathing of contaminated outside air (road tunnel, polluted area, etc.).

The air recycling function must only be momentary.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



Optimised air recycling control

To activate the function, press control (1); indicator pictogram (2) is displayed.

During activation, the air recycling flap is then automatically controlled depending on the optimised strategy and information from the de-misting and air quality sensor.



To deactivate the function, press control(1); indicator pictogram (2) is extinguished.

Once the function is deactivated, the air recycling flap goes back to manual mode and information from the demisting and air quality sensor is no longer taken into consideration.

Air conditioning control

The use of this function may lower the cab interior temperature or de-mist more quickly. Press control (1); indicator pictogram (2) is displayed.

Adjust the temperature as required.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



Fully automatic air conditioning is fitted with a de-misting sensor that can modify the different functions such as air ventilation, air recycling, air distribution and air conditioning.

When the de-misting sensor detects misting, the functions managed automatically in the current active mode may be modified momentarily for the purposes of de-misting. Once de-misting is completed, the system reverts to the mode that was previously active.



After the vehicle has been standing for longer than a week and in order to maintain the service life of the air conditioning system, activate the air conditioning, engine running and at idling speed.

De-icing/de-misting control

To activate the function, press control (1); indicator pictogram (2) is displayed.

To optimise its efficiency, the de-icing/de-misting function activates the air conditioning function and automatically controls the temperature, ventilation, recycling and air distribution until the windscreen and the side windows are clear.

Any action on the air distribution control deactivates the de-icing/de-misting function.



Fully automatic air conditioning

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



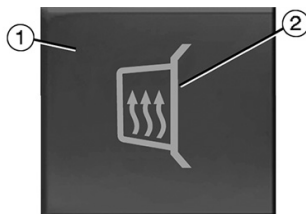
Activating the de-icing/de-misting control switches off the automatic heating comfort mode.

All the functions in process before the de-icing/de-misting request are stored in memory to return to the previous state when the function stops.

Rearview mirror de-icing control

With the engine running, press control (1) to activate the function; indicator pictogram (2) is displayed.

To deactivate the function, press control(1); indicator pictogram (2) is extinguished.



The rear-view mirror de-icing control deactivates automatically after 30 minutes of continuous use.

Automatic heating comfort mode

This mode automatically activates the ventilation, air distribution, recirculation and air conditioning systems. Press control (2); the "auto" indicator lights up.

In automatic heating comfort mode, the system manages the air conditioning depending on external temperature, the temperature setting on the information display, the activation of the optimised air recycling function (instead of the air recycling function if it is active), the ventilation speed and the air distribution best suited to achieve and maintain the comfort required.

To deactivate the automatic heating comfort mode, turn control (1) or modify the air distribution.





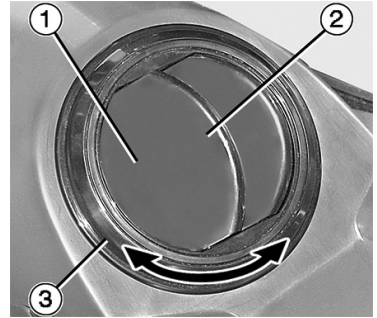
Activating the automatic heating comfort mode deactivates the defrosting/de-misting function and has no effect on the rearview mirror de-icing function.

Air vents

Opening the flow: press on section (1) of the air vent.

Closing the flow: press on section (2) of the air vent.

Orientation: hold air vent (3) and turn it to the position required.



STOP

DEVELOPMENTS IN THERMAL AND ACOUSTIC COMFORT HAVE RESULTED IN VERY EFFECTIVE SEALING OF CABS. IT IS THEREFORE NECESSARY TO ENSURE SUFFICIENT VENTILATION (PARTLY-OPENED WINDOWS, ROOF VENTILATION HATCH) TO PREVENT AIR FROM BEING TRAPPED DURING LONG PERIODS INSIDE THE CAB.



Safety

Seat belts

The highway code states that you must always wear a seat belt on board a motor vehicle, regardless of where you are sitting.
Always wear your seat belt when you are driving! An alarm will sound a symbol will be displayed on the instrument panel as a reminder to wear your seatbelt, if necessary.

Seat belts with automatic inertia reel

Unroll the strap slowly to engage tongue (1) in buckle (2). If it jams, thread the belt back slightly the unroll again.



Unlocking

Press button (3) on casing (4), the belt is wound in by the inertia reel. Keep hold of buckle (1) to make this operation easier.



Warning pictogram (AA) on the instrument panel informs you that the seat belt is not fastened.



For your own safety, wear your seat belt for all journeys.
Before starting: first adjust your driving position then adjust your seat belt correctly.



NEVER PASS THE HARNESS BELT UNDERNEATH YOUR ARMS OR BEHIND YOUR BACK.

Child safety

The use of a baby and child restraint is a legislative requirement.

In Europe, children under 12 years of age, of a height less than 1.50 metres and a weight below 36 kilograms, must be secured with a type-approved device suitable for the weight and size of the child.

The driver is responsible for ensuring that this device is used correctly.

We recommend that you select a type-approved device that is compliant with the European ECE 44 regulation.



The legislation in effect in the country in which the vehicle is being driven must be abided by. They may differ from those mentioned here.



BABIES AND CHILDREN MUST NEVER BE TRANSPORTED ON THE LAP OF VEHICLE OCCUPANTS.

NEVER USE A SINGLE BELT TO SECURE TWO PEOPLE.

Before installing a child seat in the front (if the installation is authorized)

When the passenger seat is so fitted, proceed to make the following adjustments:

- move the passenger seat back as far as it will go;
- straighten the backrest so it is as vertical as possible;
- lower the seat base as far as possible;
- raise the headrest as far as possible;
- adjust the height of the seat belt in the low position.

Folding rear run-under guard

This safety function prevents unprotected road users from being trapped under the vehicle in the event of a rear collision.

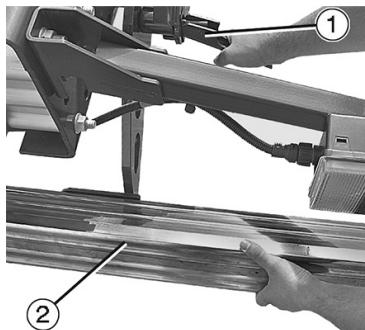


The rear under-run guard must always be in place and fastened correctly when using the truck.

rigid vehicle

Unlocking

To unlock handle (1), support underrun guard (2) by holding it.

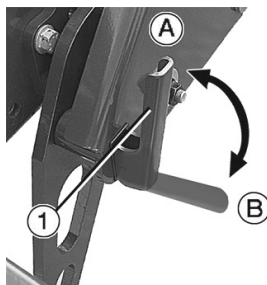


Lower handle (1) to bring it from position A to position B.



Keep hold of the underrun guard to move it from the top position to the bottom position, so that it does not drop due to its own weight.

Before unlocking handle (1), ensure that this can be done safely (vehicle stationary, accessibility, risk of impact).



Locking

Lift handle (1) to bring it from position B to position A. Ensure that the underrun guard is locked securely in the required position.

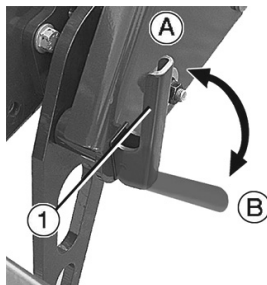


Use on the public highway:

- *the underrun guard must be secured in the bottom position.*

Construction site use:

- *the underrun guard must be secured in the top position.*





Vehicle operating instructions

Running-in

During the running-in period (approximately 5000 km), only operate the engine at full engine speed over short distances. Do not run the engine at speeds that are too high or too low. Monitor the coolant temperature and oil level carefully.

The vehicle should be laden the same as for normal use.

Use during winter or in cold countries

In cold weather, you must adapt the use of your vehicle in terms of driving style, starting or parking.

Depending on your vehicle's equipment

Starting the engine

See chapter **Driving**.

Before setting off, allow the engine to idle for a few seconds to ensure that the oil is circulating. There is no need to leave the engine warming up for too long; start off at low speed using a range of sufficiently-low gears. Never request maximum engine performance until the temperature has reached 80°C.

A black octagonal sign with a white border and the word "STOP" in white capital letters.

INSTALLING A RADIATOR SHROUD OR RADIATOR GRILLE COVER PLATE IS ABSOLUTELY PROHIBITED ON COOLED TURBOCHARGED ENGINES. THIS ACCESSORY PREVENTS THE COOLING OF THE AIR FROM THE TURBOCHARGER AND THEREFORE IMPACTS ON ENGINE POWER AND PERFORMANCE.

Engine cooling circuit

This vehicle is supplied with "ULTRACOOLING PLUS" coolant (RENAULT TRUCKS Oils product) in compliance with RENAULT TRUCKS specifications. Depending on its country of use, it provides protection against freezing down to -25°C or -40°C.

Vehicle equipped with a robotised gearbox

Activation by low temperature

Follow the instruction below:

In external temperatures below - 20°C, let the engine run for 10 minutes to reach gearbox operating temperature.

Windscreen wiper use



In "very wet snowy" conditions of use, we recommend that you do not use the windscreen ventilation function at its maximum setting, to avoid an accumulation of snow which could affect rains sensor operation. In this scenario, you will need to use manual mode for wiping the windscreen.

Use during summer or in hot countries

Always adapt the use of your vehicle in terms of driving style, starting or parking according to the weather conditions.

Do not labour the engine, shift gear as often as necessary to keep the engine running at an optimum speed. Coolant circulation will be activated and the temperature will be maintained within the operating norms. Clean the radiator fins frequently, where insects and dirt can obstruct air circulation, by blowing through from the rear side with compressed air. Ensure that the radiator is in perfect condition; descale it if necessary.

Use in dusty environments

It is recommended to inspect the air filter clogging indicator carefully every day.

Air filter

Do not forget that clogging of the air filter is a function of engine speed, it follows that in use low gear ratios must be used (mountainous routes). Take time into account rather than the distance covered.

A clogged filter may cause serious faults.

Use at high altitudes

Using the vehicle at certain altitudes has an impact on engine performance. The reduction in power output is approximately 10% for naturally-aspirated engines and approximately 5% for turbocharged engines, for each 1000 m of altitude. Furthermore, take into account that the boiling point of water is reduced by 3.5°C per 1000 m of altitude.

Economic driving

To obtain the best performance using your gearbox, and in particular reduced fuel consumption, adhere to the following rules for driving:

- always select the gear ratio that allows you to use the engine at its most efficient speed. It is within this range that the maximum torque is found, offering the lowest fuel consumption;
- select the correct ratio based on the topography of your route;
- remember that **any gear shift will result in increased fuel consumption.**

Turbocharger

Turbocharger faults

Incorrect operation of the turbocharger is noticeable through a lack of engine power output, unusual noise, oil present in the intake manifold or unusual smoke from the exhaust.

In this case, visit the nearest RENAULT TRUCKS garage. No internal work should be performed on the turbocharger.



Installation of one or more heat shields on the turbocharger is essential to prevent any risk of vehicle fire or damage to the surrounding components.



Any operation on the exhaust pipe or its mountings requires tightening to torque. Contact a RENAULT TRUCKS garage.

Parking the vehicle

As with driving, you should always take care when parking the vehicle so as not to endanger other road users, and also to avoid damaging your vehicle.

Short stays (less than ten days)

Make sure that the vehicle is correctly parked (no risk of disturbing the traffic or safety risk for traffic, persons or surrounding facilities, following the highway code).

Avoid parking the vehicle near bends, road junctions or traffic signs where it may obstruct visibility or startle other road users.

Ensure that all electrical systems are switched off or unplugged.

Turn the main power switch to avoid discharging the batteries.

Parking for less than 30 days

Secure the vehicle without using the parking brake (to prevent the linings from sticking). To do this, immobilise the wheels of the vehicle and regularly check the vehicle's stability.

Raise and protect the wiper blades. Make sure you protect the windscreen to avoid damage in the event that the wiper blades suddenly fold down.

Protect plastic, rubber and glass parts from the effects of UV radiation.

Fill the fuel tank to prevent condensation forming.

Ensure the tyre reach is changed regularly (to avoid any flattening of the tyre tread).

Once a week:

Check that there are no traces of oil, coolant or fuel leaks under the vehicle.

Check levels: engine oil, power steering, etc.

Start the engine and run it until the air pressure light goes out. Monitor the indications shown on the display.

Parking for over 30 days

Check the condition of the tyres, including the spare (pressure, impact marks or cracks in the sidewalls, etc).

Check that the air intake vents are not blocked.

Check and if necessary recharge the batteries.

Start the engine and leave it running until the air pressure light goes out. Monitor the indications shown on the display.

Check that all the accessories are functioning properly (air conditioning, heating, windscreen wipers, front/rear signals).

- Move the vehicle:

- 5 to 10 km at a moderate speed allowing the components to warm up as normal. When stopped, check for leaks (hubs, axle head, etc).
- 15 to 20 km at normal speed, up to the maximum speed of the vehicle (while respecting the highway code) to check the behaviour of the vehicle, gear shifting, while taking note of any abnormal noises.

After the checks, if you park the vehicle again, apply the above advice and ensure that the tyres are changed.

Check the lubricating points (hinges, locks, suspension, etc). If necessary, re-lubricate.

In the event of prolonged vehicle immobilisation, the batteries should be regularly monitored - at least every 4 weeks.

If the charge is below the minimum recommended level, you will have to recharge each battery.

If the vehicle is used in when stationary, without starting the engine, pay attention to the power consumption caused by the equipment (tachograph, GPS, radios, etc). More frequent checks will become necessary in this instance.

What is eco-driving?

Eco-driving is a responsible driving behaviour that reduces fuel consumption, reduces wear and tear on your vehicle, lessens driver stress and fatigue and reduces the risk of accidents.

Always bear in mind that energy efficiency should never come before road safety.





All the advice we provide should be applied with the utmost caution, always keeping in mind the highway code and basic safety rules.

Engine and gear utilisation

The appropriate use of your engine and gearbox will save fuel and reduce wear and tear on your vehicle.

Commercial vehicle engines are designed to focus on torque rather than vehicle power. The best performance of your powertrain (engine, gearbox, transmission to the drive wheels) will therefore be provided at even the lowest rpm. Some of the vehicle's engine energy is lost through mechanical friction. This friction, and therefore these losses, increases alongside the speed of the engine. By driving at a lower engine speed, these losses remain limited. This will naturally reduce fuel consumption.

The green zone on your tachometer will show you the rpm range in which your engine performs best.

Your gearbox changes gears for you, always applying the best gear ratio based on the fuel consumption/performance ratio you require.

To save fuel, never exceed the green zone on your tachometer when accelerating in manual mode. Change gear before the engine speed moves beyond this zone.

Vehicle speed management

Always choose the highest gear possible when driving at cruising speed.

The power required to maintain a constant speed is relatively low. As a result, it is perfectly suitable to engage a high gear at low engine speeds. This will save fuel and will not damage the engine in any way, especially if it is properly serviced.

Where possible, you should also try to maintain a constant speed, as changes in speed cause higher fuel consumption, especially when accelerating.

For acceleration, a "soft" driving style is not the most suitable. You should ideally use the accelerator using firm, deliberate actions.

This is because vehicles use up much more fuel while accelerating than when travelling at a more stable speed. The idea is to reach your cruising speed as quickly as possible by pressing the accelerator about three quarters of the way down to give your vehicle a firm acceleration, quickly moving up through the gears and then stabilising your speed.

Then maintain a steady speed using the highest gear possible.

During acceleration, the fuel energy is used to speed up the vehicle. The kinetic energy gained by this acceleration is lost during braking (dissipated as heat in the brakes, which also causes wear). Unnecessary and repeated braking and acceleration should therefore always be avoided. By paying close attention to traffic conditions and the layout of the road ahead of you, you can anticipate any gear changes you may need to make and avoid

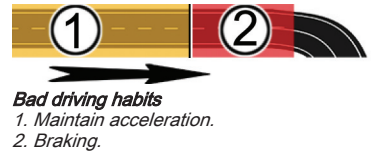
pointlessly burning through your fuel. By releasing the accelerator pedal well before the point where you would otherwise use your brakes, you dissipate kinetic energy gradually, without wearing out your brake pads and without using up fuel unnecessarily.

By driving at as steady a speed as possible, the loss of energy and fuel is likewise kept as low as possible.

One simple rule to avoid what is known as the "accordion effect" of repeatedly speeding up and slowing down is to keep a good distance from the vehicle in front of you.

In urban environments, GPS data has proven that aggressive driving (strong acceleration and braking, running amber and even red lights, etc.) does not save time. Driver stress, wear and tear on the vehicle, danger to other road users and fuel consumption, however, all increase considerably.

Remember that the brake pedal is often very badly used. You are not driving a racing car, so it is neither necessary nor desirable to "slam on the brakes".



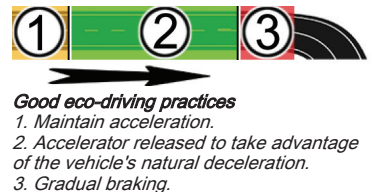
Brakes are primarily an active safety system, not a driving system. They should therefore be used as little as possible! Remember to use your vehicle's engine brake. Here too, the gains are huge, because there is no fuel injection when the engine brake is used. It naturally follows that this causes zero fuel consumption and no wear on the brakes. This driving style also forces greater anticipation of the road ahead, enhancing your safety.

To drive at as steady a speed as possible, it is important to anticipate surrounding traffic to avoid unnecessary braking and accelerating. For instance:

- when approaching traffic lights...
- coming up to cyclists or farm vehicles...
- on a busy motorway or road...

... and for all other traffic situations, this can have a strong influence on the way you drive.

Many situations can already be anticipated by looking a good distance ahead, long before any issue may occur. Anticipation is even more important if you want to take full advantage of your vehicle's cruise control.



Depending on traffic conditions, it may not be possible to drive as fast as the legal speed limit allows. Adapting your speed to the situation can save fuel. In poor traffic conditions, driving more slowly with at a lengthy distance behind the vehicle in front prevents traffic jams and accidents. It is always better to maintain a low but steady speed rather than

constantly trying to close the gap with the vehicle ahead of you. Driving calmly and taking your time (or at least the right amount of time) saves fuel, stress, wear and tear on equipment and increases road safety.

Driving calmly when yours is the only vehicle in sight and on short trips saves fuel. On a 20 km stretch of road, all you save by driving at 90 km/h instead of 80 km/h is 1 minute and 40 seconds. By sticking to 80 km/h, you stand to burn up to 5% less fuel. On top of the money-saving aspect to lowering your speed, it turns out that driving slower not only prevents accidents but also reduces the damage an accident may cause. The braking distance is 10 metres less at 80 km/h than at 90 km/h.

Finally, driving well below the speed limit means that you don't have to keep glancing at your speedometer to make sure you don't creep over the limit. This means you pay more attention to the traffic conditions and you will feel less tired when you stop driving.

Vehicle maintenance

The above rules not only offer good savings in fuel consumption, but also in vehicle maintenance expenses. Maintenance plays a very important role in your energy costs.

While it is well known that a dirty air filter can lead to a drop of over 20% in engine performance (and even cause engines to fail in the case of a punctured air filter), it is less well known that the condition and pressure of your tyres is also a significant factor.

Vehicle maintenance plays an important role in performance, starting with the condition and pressure of the tyres. The lower the tyre pressure, the higher the fuel consumption. It is therefore very important to follow the manufacturer's recommendations (under-inflation = risk of tyre explosion and excessive fuel consumption, over-inflation = excessive wear and risk of explosion if the tyre is defective).

Additionally, improper inflation can lead to wear and tear on the entire running gear, poor handling and general vehicle comfort.

Worn tyres may increase rolling resistance and will not grip well. As a result, you will end up with higher fuel costs while simultaneously putting you at risk.

A well-maintained engine will also perform better. Oil loses its lubricating qualities over time, increasing the internal resistance of the engine, and therefore using more fuel.

Finally, the type of fuel and lubricants used also has its own role to play. Good quality fuel and lubricants will keep your engine, gearbox and axles in good condition and performing well.

Good habits

The aerodynamic profile of the vehicle must be respected. This means that extra items fitted to the vehicle exterior should be kept to a minimum to avoid disrupting the air flows and creating turbulence, acting as parachutes to slow down your truck.

It is also a well-known fact that correctly adjusting your roof deflector (and installing one if your vehicle doesn't have one) will also save you a surprising amount of fuel.

The issue of your windows, however, might not immediately spring to mind. A wide open window at 90km/h will significantly raise your fuel consumption.

Use your air conditioning in moderation also stands to save considerably on your fuel costs. Like in refrigerators, air conditioning is supplied by a compressor and a radiator system. The compressor takes its energy directly from the engine, so you end up burning fuel to cool your cab. You should never allow a difference of more than 10°C between your cab interior and the outside. Not only will you save fuel, but you'll be healthier too!

Just like in a race, superfluous weight is the enemy. The weight of your vehicle increases the rolling resistance and therefore the effort required from the engine to propel the vehicle forwards. You should therefore take care not to carry unnecessary loads.

Final tips:

Plan your route properly before setting off. Make sure you know your precise point of arrival before you leave. Planning your journey properly allows you to optimise your routes if you have multiple destinations, so you can avoid doubling back on yourself unnecessarily (saving time and fuel).

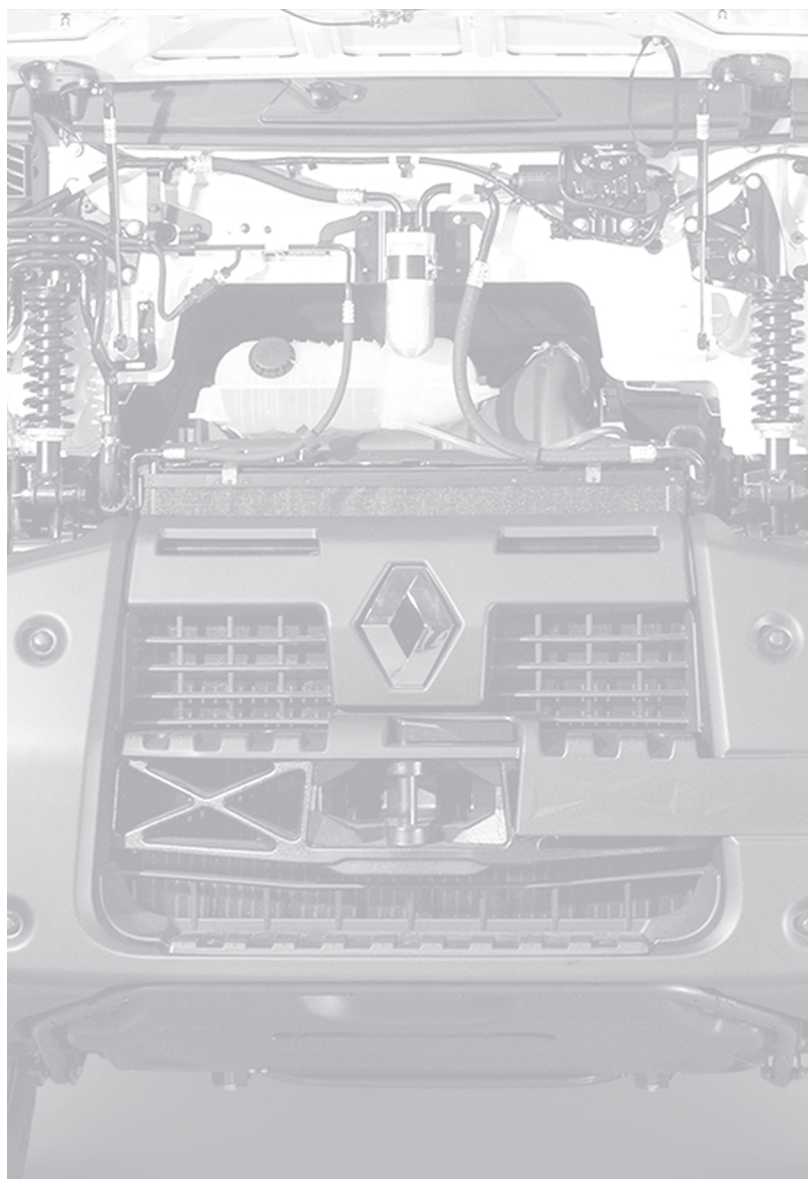
There are plenty of tools available on the Internet to help you pinpoint your destination before you leave. These tools can sometimes save you from having to make tricky manoeuvres on unsuitable roads. Such manoeuvres can waste time as well as fuel. Not to mention the risk of damage to your truck's bodywork.

Keep your vehicle scrupulously clean! Careful cleaning can help you identify leaks or defects that could affect the performance of your vehicle.

Learn how to properly use your vehicle's driver assistance systems. They will be the best solution for optimising your driving and could potentially anticipate obstacles along your route. Let them work as they are designed to. Don't be tempted to speed up when you don't understand why the system is dropping vehicle acceleration.

Finally, it is best not to leave your engine idling. As a general rule, after 30 seconds it is more cost-effective to switch off the engine.

Thinking along similar lines, when starting - even in cold weather - it is preferable to set off as soon as possible by driving slowly to allow the whole drive train to warm up evenly without wasting fuel. Letting your vehicle idle will only heat up the engine and, to a lesser extent, the gearbox. As a result, they will exert full power on axles that are still cold. So in addition to the fuel wasted with your engine running at a standstill, you risk premature wear on your axles.



Daily checks

Daily check

The daily inspection of the truck is important for detecting any faults and to avoid unplanned downtime.

The inspection is optimally performed by carrying out the following points in the cab and then walking around the truck. Start at the driver door, and continue in front of the cab and around the truck.

- Apply the parking brake.
- Switch on the lighting.
- Switch on the hazard warning lights.
- Check for any fault messages.

Pay particular attention to fault messages about the engine oil level and the coolant level.

Before getting into the vehicle

In particular, check:

- That there are no traces of oil, coolant or fuel under the vehicle.
- The tyre pressures.
- The condition of the tyres
- The fluid levels for:
 - the engine
 - power-assisted steering
- The coolant level.
- The screen wash reservoir level.
- Air filter clogging indicator.
- Cab locking.
- Sealing of the components. In the event of a leak, clean the breather pipe. A blocked breather pipe generates pressure inside the crank case and causes leaks.



Taking these checks seriously will help you save fuel, avoid serious damage that could immobilise the vehicle or even cause a serious accident.

Tyres

Tyre pressures.

Refer to the **Maintenance and servicing** section.

Condition of the tyres

Carefully check the condition of each tyre:

- Check the level of wear
- Check the condition of the tyre tread
- Check the condition of the tyre side walls



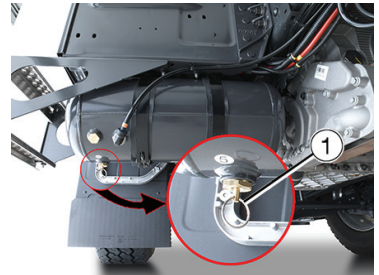
A tyre that is over- or under-inflated, with rips in the tread, cracks, bulges in the side walls or any other traces of deterioration might lose pressure suddenly and cause a serious accident.

If in doubt, contact your Renault Trucks service point.

Bleeding water from the air tanks

Amongst other things, your vehicle uses compressed air to operate its brake system. An air dryer cartridge removes all moisture from the air circuit to avoid damaging the very sensitive components used in this system. Over time, especially in the case of very high air consumption or malfunction, water will still enter the system. It then accumulates in the tanks and can end up seriously damaging or blocking the brake system.

To avoid the risk of water-related failures, pull the bleed ring (1) for each air tank at least once a day to remove any moisture. Let the air out until you believe it to be dry.



Bleed the air tanks to check for condensation. Excessive water in the tanks can be a sign that the dryer is malfunctioning.

Coolant level

Check the engine coolant level through the transparent wall of the expansion chamber.

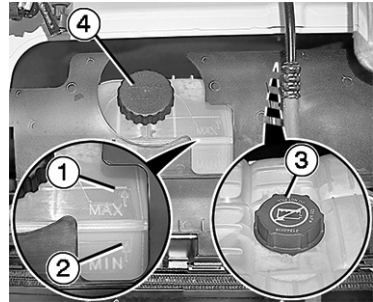
The level must be between the "MIN" (1) and "MAX" (2) marks; top up if necessary.

STOP

THE "PRESSURE-VACUUM" PLUG (3) IS A TARED PLUG TO MAINTAIN A SAFE PRESSURE IN THE COOLING SYSTEM. IT SHOULD NOT BE MOVED.

REMOVE THE FILLER CAP (4) TO TOP UP. CAUTION: NEVER OPEN THIS CAP WHEN THE ENGINE IS HOT, AS LIQUID MAY SPLASH OUT AND CAUSE SERIOUS BURNS.

USE ONLY COOLANT RECOMMENDED BY RENAULT TRUCKS.



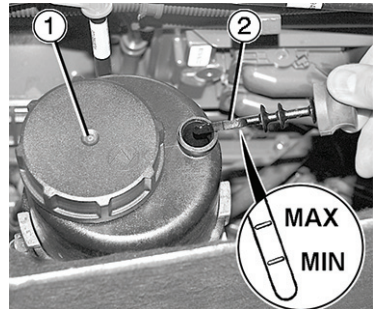
Steering fluid level

Tilt the cab.

Refer to the **Cab tilting** section.

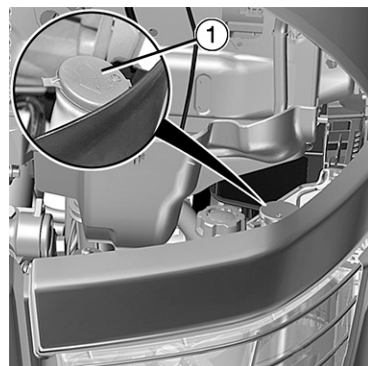
Check the steering fluid level (2).

If necessary, top up the level via filler port (1).



Screen wash level

Check the level in reservoir (1) regularly. Top up if necessary. To avoid lime scale formation and the blockage of the pipes, it is recommended to add screen wash additive (RENAULT TRUCKS). This product also works as an anti-freeze agent. It can be maintained throughout the year.



The windscreen and headlight washer container can hold around 10 litres.

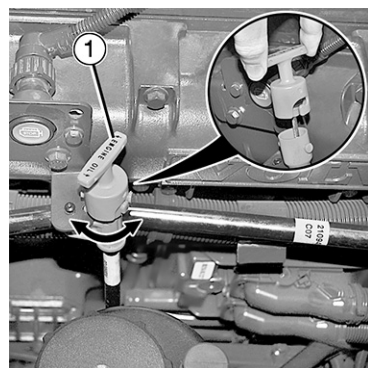
Engine oil level check

Tilt the cab.

Check the oil level using dipstick (1).



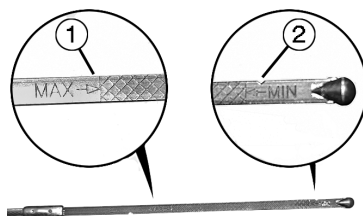
Always check the level on horizontal ground, 2 hours after stopping the engine.



Daily checks

Reading the oil dipstick:

1. Maximum level
2. Minimum level

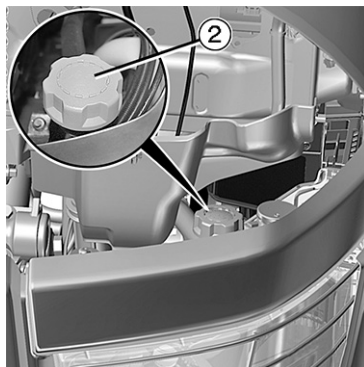


The quantity of engine oil between the minimum and maximum levels is approximately 6 litres.

Top up the level if necessary.

Filler cap (2).

You have the option of topping up the engine oil level via filler cap (2) without tilting the cab, following the instructions on the multifunction information display .



Coolant temperature indicator

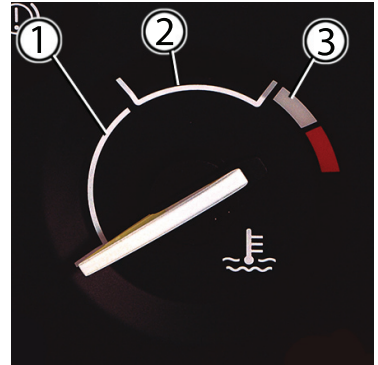
The coolant temperature indicator comprises 3 zones.

Zone 1: cold zone when starting the engine.

Zone 2: normal engine operating temperature zone between 80/100°C.

Zone 3: coolant overheating zone; engine torque will be reduced.

Contact a RENAULT TRUCKS garage.

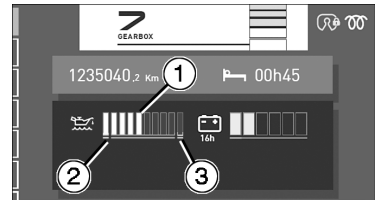


Engine oil level gauge

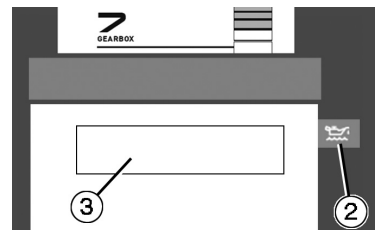
The level should be read on level ground after the engine has been stopped for a prolonged period.

When the ignition is switched on:

- Bar graph (1) indicates the oil level.
- "Min. level" zone (2).
- "Max. level" zone (3).

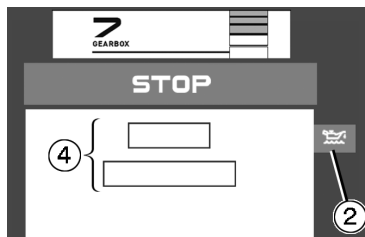


Indicator pictogram (2) and an associated message (3) inform you that the oil level is too low.



If the level is really too low, indicator pictogram (2) and an associated message (4) inform you that the oil level is insufficient and that there is a risk of damaging the engine.

It is essential to stop the vehicle and top up the oil level.



In the event of fault on oil level indicator (1), the level check is not available on the multifunction information display.

Check the level on the gauge and go to the nearest RENAULT TRUCKS garage.



Air pressure indicator in braking circuit

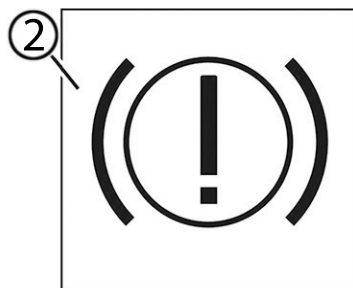
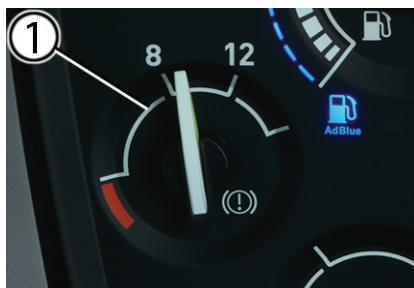
Indicator (1) provides information about the air pressure in the braking circuit.

When driving, if warning air pressure pictogram (4) and the STOP warning light are displayed, you must stop the vehicle and contact the nearest RENAULT TRUCKS garage.

After a prolonged stop, it is possible for the air pressure to drop below a limit not allowing the vehicle to set off, start the vehicle to pressurize the air circuit so that warning pictogram (4) is extinguished.

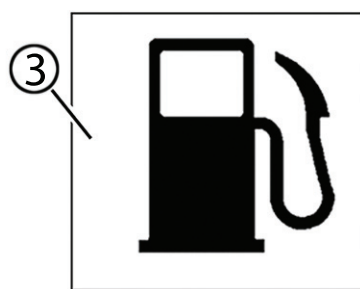


The engine speed may increase automatically to reduce the reservoir inflation time. A brief press of the accelerator pedal or the engagement of a gear ratio will stop the function and the engine speed will fall back to the idle speed value.

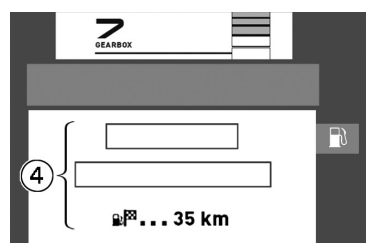


Fuel level indicator

Indicator (1) informs you of the fuel level. When the sender unit reaches the low level, reserve warning light (2) illuminates and warning pictogram (3) is displayed on the multifunction information display.



At this moment, an information message (4) on the multifunction information display indicates the distance covered since the illumination of the fuel reserve light.



AdBlue level indicator



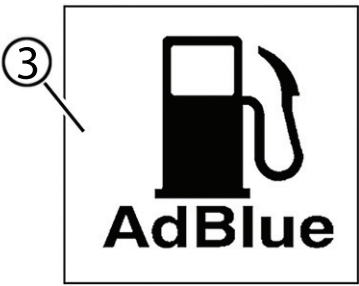
The use of AdBlue is essential to the correct operation of the vehicle and for abiding by legislation in force.

Not using AdBlue may be considered an offence.

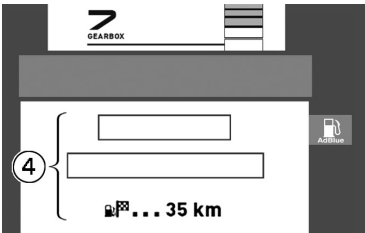


After filling the AdBlue tank subsequent to a torque reduction phase due to the level being too low, switch on the ignition, wait for 15 seconds (vehicle stationary) until torque reduction is inhibited.

Indicator (1) provides information on the AdBlue level. As the AdBlue level decreases, the segment graduations disappear. When the final graduation disappears, reserve warning light (2) illuminates and warning pictogram (3) is displayed on the multifunction information display.

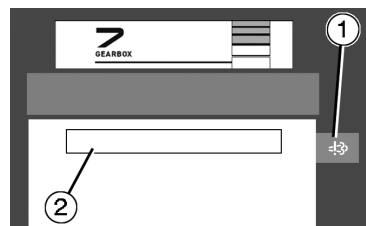


At this moment, an information message (4) on the multifunction information display indicates the distance covered since the illumination of the fuel reserve light.



If you use your vehicle until remaining AdBlue is exhausted, warning pictogram (1) and a related message (2) telling you that the tank is empty are displayed on the multifunction information display.

It is essential to fill the AdBlue tank as soon as possible

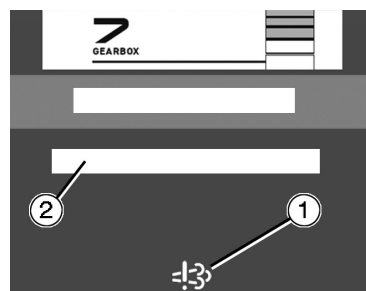


In the event of using the vehicle with the AdBlue tank empty:

- the "Information" light on the instrument panel illuminates,
- warning pictogram (1) and an associated message (2) appear on the multifunction display.

If the system detects insufficient pollution control:

- warning pictogram (1) and a related message (2) appear on the multifunction information display telling you that the engine is no longer being cleaned up and that an engine torque reduction phase will be applied at the next engine stop.



When the torque reduction information is displayed, this means that the fault will be stored and become non-deletable the next time the engine is stopped. It can be consulted at any time by the police force.



Start-up and driving

Immobilizer

Your Renault Trucks vehicle has an immobilizer function to stop theft.

The vehicle is delivered with coded ignition keys paired up to the electronic anti-theft device.

Starter ignition switch with electronic immobiliser.

Master switch triggered or vehicle taken out of low consumption mode, bring the key into the cab, then press the START/STOP button.

The system recognises the key code and authorises the engine start.

If the transponder malfunctions, a message appears on the multifunction display; the vehicle cannot be started.



STOP

ANY UNAUTHORISED OPERATION ON THE ELECTRONIC IMMOBILISER SYSTEM WILL CAUSE MALFUNCTIONS, MAKING IT DANGEROUS TO OPERATE THE VEHICLE.

START AND STOP button operation

Your vehicle has a START/STOP button that controls the stop/living, accessories and contact modes and enables the engine to be started/stopped.

It is only activated when the remote control is detected in the cab, with the master switch in the ON position.



If the vehicle cannot detect the remote control or if it is not identified, a message will be displayed on the instrument panel.

Check that the vehicle key is present in the cab or replace the key battery.

If the fault persists, contact a RENAULT TRUCKS service point.

The button lights up white when the door opens for more convenience. It goes out approximately 30 seconds after you close the door.

START/STOP button positions

Stop/Living position:

Press the remote control button to control the vehicle lock and activate Parking Mode. This mode enables the controls necessary for Living Mode to receive power (windows, power sockets, interior lighting, etc).

Accessory mode:

"Comfort accessories power": engine stopped, steering not locked. This mode provides power to the additional comfort accessories (radio, fan)

Contact mode:

The vehicle is ready to be started.

Start mode:

Engine start control.

Switching between the different modes:

You can only switch between modes if the remote control is detected inside the cab. Mode switching is performed by pressing briefly on the START/STOP button.

Each short press after the stop mode switches to accessory mode, then contact mode, then stop mode.

The ignition can still be switched off without having the remote control on board.

Engine start-up

With the remote control onboard, you can start the engine directly from any mode by:

- pressing down the brake pedal and pressing the START/STOP button (keep your foot on the brake until the vehicle starts)
- a long press (over 3 seconds) on the START/STOP button without using the brake pedal.



The procedure will be stopped if the brake pedal is released before the engine starts.

From stop position:

One short press on the START/STOP button with the brake pedal released switches the vehicle to "accessory" mode.

From accessory mode:

To stop mode:

Before starting

Short press on the START/STOP button, parking brake not activated and brake pedal raised.

Or

Short press on the START/STOP button and accessory mode activated for over 15 minutes.

To contact mode:

Accessory Mode => Contact Mode:

Short press on the START/STOP button, parking brake activated, brake pedal raised and accessory mode activated for less than 15 minutes.

From contact mode:

To stop position:

Short press on the START/STOP button, brake pedal raised.

Engine running:

To stop position:

Short press on the START/STOP button when the vehicle is travelling at less than 7 km/h.

Or

Press and hold.

To contact mode:

- If the engine stalls.

If the engine is switched off due to body builder casing.

Engine shut-off above 7 km/h

A long press (over 3 seconds) is required to shut off the engine above 7 km/h. In this case, the vehicle will become immobilised with the automotive activation of the parking brake.

If you do not press the button for long enough, a window will ask you to try again.



By giving a long press on the Start and Stop button while the vehicle is moving, if the speed does not drop below 7Km/h within 40 seconds, the parking brake will not be applied automatically.



The vehicle will automatically switch to stop position if the remote control is no longer in the detection area:

After 10 minutes in contact mode.

After 1 hour in accessory mode.

A door opening will reset the timer.

The START/STOP button will be white in stop position.

In accessory or contact mode or with the engine running, the START/STOP button will display orange backlighting. The button brightness is controlled by the lighting level in the cab.



When the starting procedure is engaged, a message will be displayed on the instrument panel if the engine cannot be started, giving the reason for this.

Please contact a RENAULT TRUCKS service point if you have any questions.

Display test

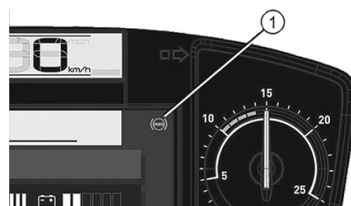
When starting your vehicle, the information display exchanges information with you.

When the ignition is switched on, a self-test takes place for 4 seconds. This test checks all the instrument panel indicators for correct operation.

Statutory test display

After the display test, the "statutory test" mode is activated.

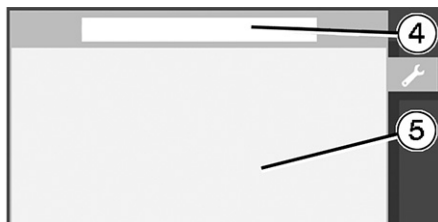
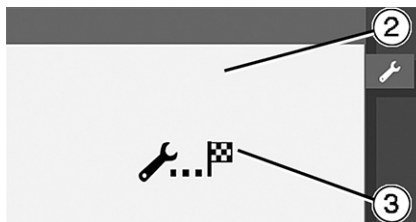
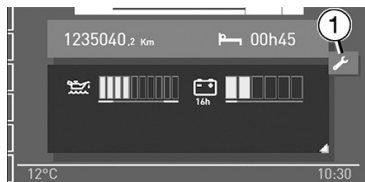
The pictogram for the function to be checked (1) ("ABS" braking system) is displayed for approximately 5 seconds.



Maintenance display

Maintenance warning (1) light may be displayed in 2 possible cases:

- in pre-alert, warning pictogram (1) is displayed for around 30 seconds after the regulatory test;
 - in alert, warning pictogram (1) is displayed and illuminated in orange.
- In the case of a pre-alert, by confirming, the information on the next maintenance (2) and on the remaining mileage, hours or date (3) by which the maintenance must be carried out are displayed;
 - For an alert, when validating it service information (4) is displayed, stating that the service must be carried out (5). In this case, visit the nearest RENAULT TRUCKS garage to carry out the service.



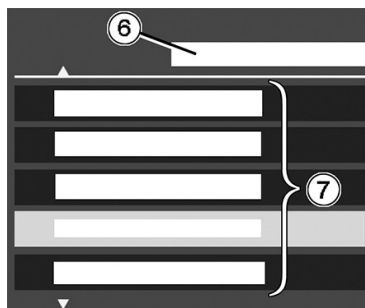
Maintenance screen key

Following an alert, look up the component in question in the maintenance menu on the multifunction information display.

You can access the maintenance details (6). You may consult the future and expired maintenance operations for components (7) classified in order of priority.

After data retrieval, you view the status of the maintenance concerned depending on its type and status.

For some maintenances, you have the option of resetting the maintenance indicator.



Checking the operation of the air filter

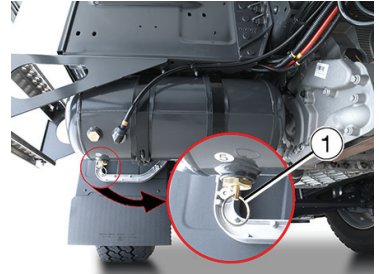
Amongst other things, your vehicle uses compressed air to operate its brake system. An air dryer cartridge removes all moisture from the air circuit to avoid damaging the very

sensitive components used in this system. Over time, especially in the case of very high air consumption or malfunction, water will still enter the system. It then accumulates in the tanks and can end up seriously damaging or blocking the brake system.

It is vital that the air stored in the tanks should be as dry as possible.

Check the air tanks for water each time before you set off, or if an air system warning message appears on the display.

To avoid the risk of water-related failures, pull the bleed ring (1) for each air tank at least once a day to remove any moisture. Let the air out until you believe it to be dry.



Bleed the air tanks to check for condensation. Excessive water in the tanks can be a sign that the dryer is malfunctioning.



It's normal to find a little moisture in the fuel tanks, especially if you drive in humid areas. But if you find a lot of water, or it reappears too quickly in one of the air tanks, you should go to a Renault Trucks garage to have the system checked.

Engine start-up

Your Renault Truck has functions and specific features that you should know about to be able to start the engine.

The vehicle key is no longer used to activate the starting system. The key simply has to be present inside the cab. Always keep it with you.

The vehicle is started by pressing the START/STOP button when the key is inside the cab.

If the vehicle encounters issues trying to detect the key, place it on the detection aerial (1) under the Start and Stop button, and replace the remote control battery as soon as possible (see locking section, or go to the nearest Renault Trucks garage).



STOP

IN SOME CASES, THE KEY MAY BE DETECTED BY THE VEHICLE EVEN IF IT IS OUTSIDE LESS THAN ONE METRE FROM THE CAB.

BE CAREFUL, ESPECIALLY WHEN YOU WALK IN FRONT OF THE VEHICLE OR IF YOU ACCESS THE WINDSCREEN AREA - RISK OF UNINTENTIONALLY STARTING UP THE WINDSCREEN WIPER SYSTEM OR THE ENGINE.

Loss of synchronisation

If the remote control (1) loses synchronisation, place it under the start & stop button (2), then press the start & stop button (2) for three seconds.



Ensure that the parking brake is engaged.

Ensure that the gearbox is in neutral.

START/STOP button operation

Key in the cab:

Press the START/STOP button down for more than 3 seconds.

or

Press the START/STOP button for less than 3 seconds while pressing down on the brake pedal.



Temperatures below 0°C: With the ignition switched on, wait for the warning light (5) to go out, then press the START/STOP button to activate the starter motor and release the button once the engine starts.

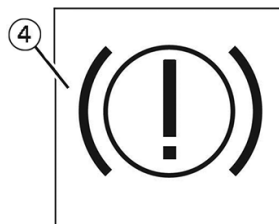
In all cases, engine speed varies depending on engine temperature.



The use of "Start pilote" type products (ether) for starting the engine is strictly forbidden (serious risk of spontaneous combustion or explosion).

Do not set off until:

- brake air pressure warning pictogram (4) goes out and the braking functions are available;
- when the parking brake is in the road position, indicator pictogram Z disappears.



Check that there is no fault warning pictogram present on the multifunction information display.

The symbol "N" (1) indicates that the gearbox is in neutral.



Fast idling device

The engine idling speed can be changed, such as in the case of vibration, or to use a body builder function.

Depending on your vehicle's equipment

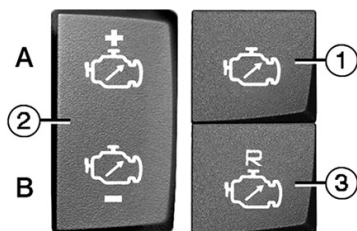
This device controls the engine idle speed, with the vehicle stationary.

Use

With the parking brake applied and gearbox in neutral, press control (1). To vary the engine idle speed, use control (2).

Pressing on control (2) (+ or -) stores the current speed when the accelerator pedal is depressed.

Release the accelerator pedal.



After activating the function by pressing on control (1), moving control (2) to A stores the current value in memory.

To fine tune the speed:

- move control (2) to A to increase the speed progressively or press on A on control (2) to increase the speed in increments;
- move control (2) to B to decrease the speed progressively or press on B on control (2) to decrease the speed in increments.

Selecting control (1) deactivates the function.



The deactivation conditions for the function may be configured. Contact a RENAULT TRUCKS garage who will be able to modify the deactivation conditions.

If the engine speed was selected earlier, press control (4) to return to the nominal speed of 900 rpm automatically.

Vehicle equipped with power take-off(s)

When engaging one or more PTOs, the engine speed automatically reaches a setpoint value (respectively 900, 1000, 1100 and 1200 rpm.), by a press on control (3).

The engine speed is set via configuration and is between 600 and 2550 rpm. (refer to the **Power take-off(s)** section).

Depending on the equipment fitted by the equipment manufacturer, the input and output conditions for this engine speed can be modified using the RENAULT TRUCKS test tool.



Avoid using the accelerator pedal while using fast idle.

Geolocation

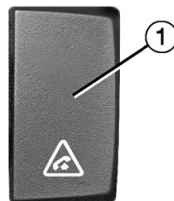
If your vehicle breaks down, you can be geolocated by this system, through the 24/7 breakdown assistance service.

Operations

If your vehicle is immobilised, contact the 24/7 breakdown assistance service. **Tel: 00 800 1234 24 24.**

After the usual formalities, you will be asked to press the switch (1).

Switch (1) will light up orange for 1 to 3 minutes during the search for your location.



Once your vehicle has been located, switch (1) is no longer lit and the operator confirms your location to you.

The 24/7 breakdown assistance service contacts the RENAULT TRUCKS garage closest to your location to provide you with assistance.

Hydraulic power-assisted steering

Your vehicle's steering is hydraulically assisted to limit the force required to drive the vehicle and improve driving precision.

However, when the engine is at a standstill or when you press the brakes, you might put the system under heavy constraints, which are at best unpleasant and ineffective, but at worst might damage the steering system.



If the steering requires a lot of effort, do not force it!

If this happens,

- check that the vehicle is in good working order (engine running, system working).
- Safety conditions permitting, release the brakes.

If the problem remains or if in doubt, contact your Renault Trucks dealer.

In no event must hydraulic components be removed or their initial setting modified. This work should be entrusted to a RENAULT TRUCKS garage.

The hydraulic system can only function correctly if it is perfectly clean. The greatest precautions must be taken on this matter when carrying out the above operations.



When the engine is stopped, the hydraulic power assistance is no longer operational, the force required to turn the steering wheel is significant.

If the steering becomes heavy while driving, stop the vehicle and determine the cause.

If any fault is detected, stop the vehicle and determine the cause.

- Check the level of the fluid in the reservoir.
- Check for any leaks on the hose connections or on the pipes; if there are, repair the leaks if possible (retighten connections or replace hoses).

Refill the reservoir with clean fluid of the recommended grade. Restart the engine and ensure that the pump is operating normally, perform several manoeuvres at low speed and at low engine speeds.

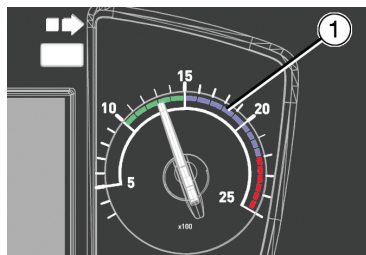
If the steering is still heavy, or if there is still doubt whether the pump is operating normally, have the assembly inspected at a RENAULT TRUCKS garage.

Operating speed

The tachometer helps you to use the engine as efficiently as possible.

Always select the gear ratio that allows you to use the engine at its most efficient engine speed, green sector on the engine speed indicator (1) of the tachometer.

When using retarder(s), a blue sector is displayed on engine speed indicator (1) on the tachometer. This blue sector indicates the maximum efficiency band of the retarder(s).

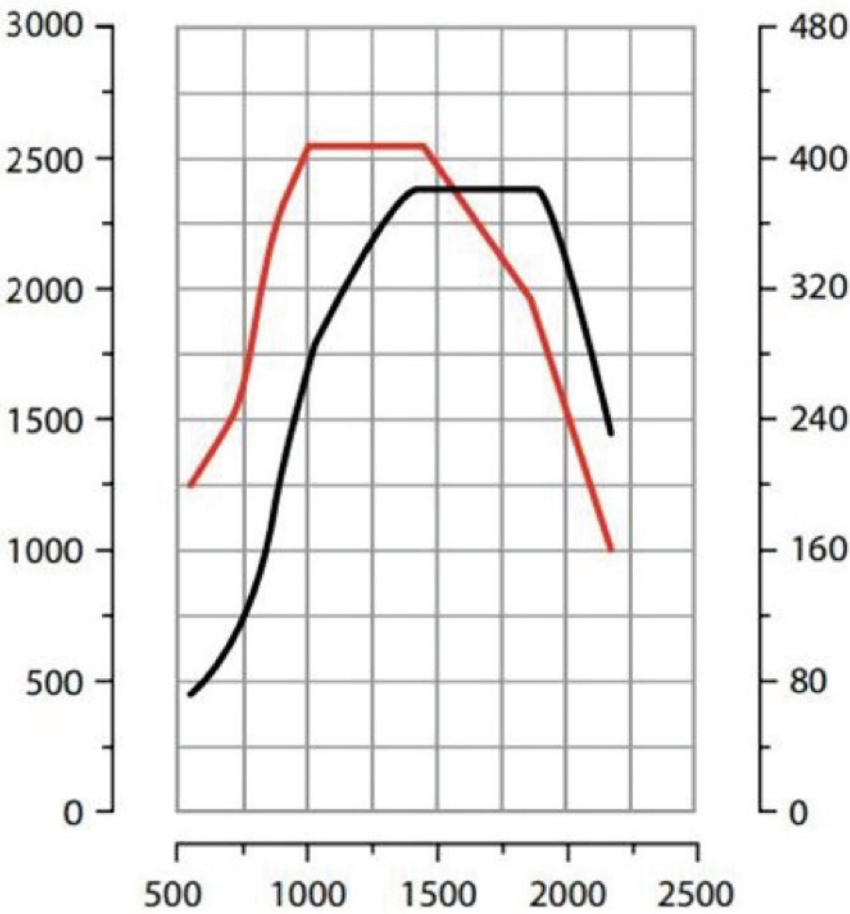


When the engine speed approaches within 300 rpm of its maximum speed, a red sector is displayed on the engine speed counter (1) of the tachometer.

Never let the engine speed reach the red sector.

Power and engine torque curves

The torque or power values may vary slightly depending on your vehicle model.



Cruise control and speed limiter

Cruise control helps to maintain a steady speed, resulting in a more comfortable driving experience and lower fuel consumption.



Do not use cruise control in hilly terrain, heavy traffic or on slippery road surfaces.

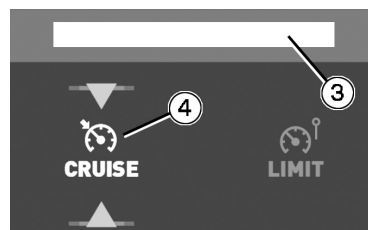
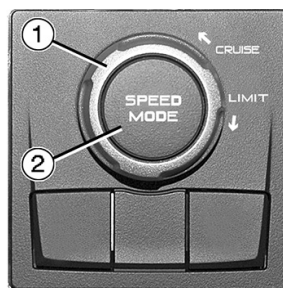
STOP

BEFORE BEGINNING TO DESCEND A STEEP GRADIENT, SET THE CRUISE CONTROL SPEED SETTING TO A SUITABLE SPEED TO ENSURE THAT THE VEHICLE DOES NOT EXCEED THE LEGAL SPEED LIMIT IN FORCE.

Selection of regulation mode

This function has 2 modes:

- Cruise control "Cruise" mode: above 30 km/h, depending on the road profile, this mode lets you drive at the stabilized road speed required without using the accelerator pedal.
- Speed limiter mode: this mode serves to prevent exceeding a driving speed that you have chosen.
- Turn control (1) anti-clockwise to select "Cruise" mode; "Speed mode" indicator pictogram (2) is displayed in green. The information concerned (3) and the indicator pictogram (4) are displayed for a few seconds on the multifunction information display.

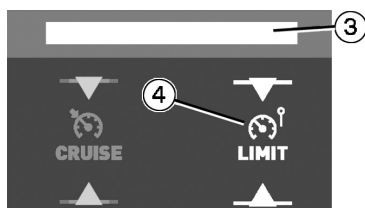
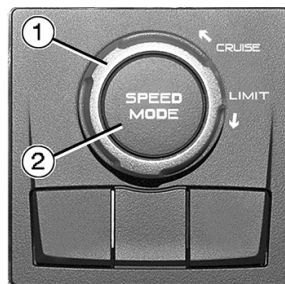


On the speed information display, dashes (1) are displayed to indicate that cruise control mode has been selected and is waiting for a cruising set speed to be entered.



Selecting speed limiter mode

- Turn control (1) clockwise to select "Limit" mode; "Speed mode" indicator pictogram (2) is displayed in orange. The information concerned (3) and the indicator pictogram (4) are displayed for a few seconds on the multifunction information display.



On the speed information display, dashes (1) are displayed to indicate that limiter mode is active and is waiting for a limitation set speed to be entered.



To find out how to use the speed limiter mode after having activated it, please refer to the **Speed limiter mode** chapter

Adjustment of regulation set speed in cruise control mode

Once the regulation mode has been selected, take the vehicle to the speed required using the accelerator pedal, the retarder control or the service brake.

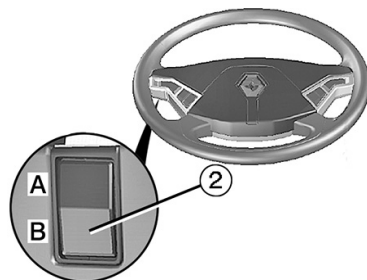
To activate the cruise control "Cruise" mode with current speed (1) as the setpoint, press on one of the positions "A" or "B" of control (2) located under the steering wheel.

To adjust your cruising speed:

- a short press of control (2) in position "A" increases the set speed by 1 km/h. Pressing and holding control (2) in position "A" increases the set speed in 5 km/h increments.



- a short press of control (2) in position "B" decreases the set speed by 1 km/h. Pressing and holding control (2) in position "B" decreases the set speed in 5 km/h increments.



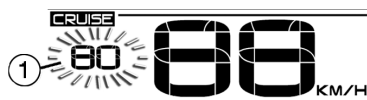
After activating the cruise control "Cruise" mode, warning pictogram (1) and the set speed (2) stored in memory appear on the speed information display.



Exceeding the cruising setpoint speed

It is possible at any moment to exceed set speed (1). To do so, depress the accelerator pedal.

During the time the speed is exceeded, set speed (1) flashes on the speed information display.



When you release the accelerator pedal, the cruise control function is resumed automatically.



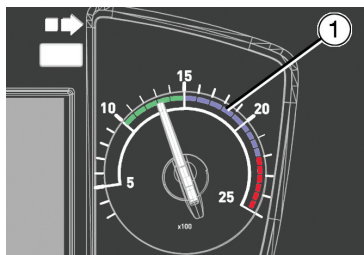
A press on the accelerator pedal for more than 3 minute(s) automatically deactivates the cruise control mode.

Maintaining the cruising setpoint speed

When going downhill, if necessary, the cruise control automatically controls the various retarders to maintain the speed within 3 km/h above the set speed stored in memory.

After 45 seconds, the vehicle speed is returned to the legal speed if the power of the various retarders so permits.

A blue sector appears in rev counter zone (1) to indicate the engine speed at which retarder efficiency is optimal.



If the retarders cannot maintain set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.



Maintaining the cruising setpoint speed

If the exhaust brake cannot maintain the set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.

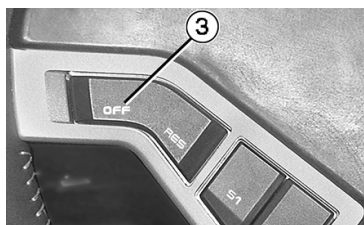


In this case it is recommended to memorize a lower speed and/or to downshift.

Cruise control function standby

The function is interrupted, indicator pictogram (1) is extinguished, memorised set speed (2) remains displayed if:

- you press control (3) on the steering wheel;
- vehicle speed is less than 15 km/h;
- you operate the brake pedal or the retarder control.

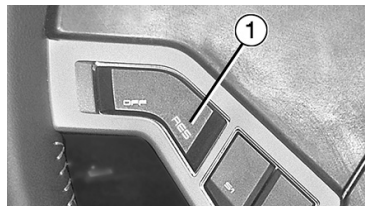


The cruise control is suspended when one of the functions "ABS", "ASR", "EBS" or "ESC" is engaged.

Recalling the cruising setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it after you have ensured that the traffic conditions are suitable.

- Press control (1) located on the steering wheel; set speed (2) appears for a few seconds on the multifunction information display .

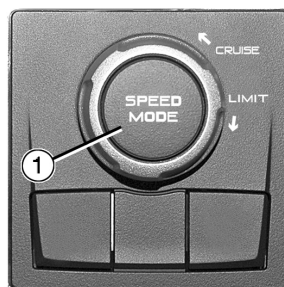


"Cruise" indicator pictogram (1) reappears in addition to set speed (2).



Deactivating the cruise control mode

To deactivate the cruise control mode, press control (1); the indicator pictogram "Speed mode" is no longer displayed.

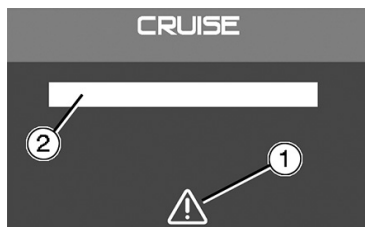


Indicator pictogram (1) and memorised cruising set speed (2) disappear from the speed information display.



Fault present on cruise control mode

In the event of a fault on the cruise control mode, warning (1) and a related message (2) appear on the multifunction information display; go to a RENAULT TRUCKS garage.



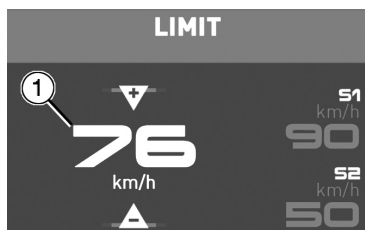
Speed limiter mode

Before activating the speed limiter mode, select the speed limiter mode.

Refer to the "Selection of speed limiter mode" chapter

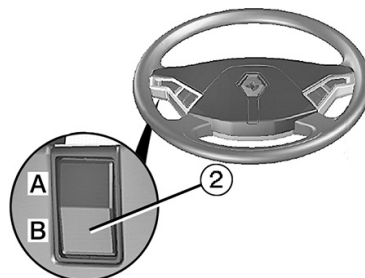
Activating the mode and adjusting the limitation setpoint speed

To activate the "Limit" mode with current speed (1) as the setpoint, press on one of the positions "A" or "B" of control (2) located under the steering wheel.



To adjust your limitation speed:

- a short press of control (2) in position "A" increases the set speed by 2 km/h. Pressing and holding control (2) in position "A" increases the set speed in 5 km/h increments.
- a short press on control (2) in position "B" reduces the set speed by 2 km/h. Pressing and holding control (2) in position "B" reduces the set speed in increments of 5 km/h.



After activating "Limit" mode, indicator pictogram (1) and memorised set speed (2) appear on the speed information display.



When a set speed (2) is stored in memory and as long as this speed is not reached, driving remains similar to driving before the activation of the speed limiter function.

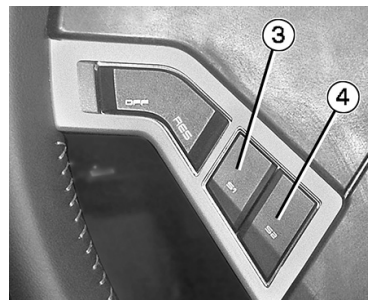
As soon as you reach the setpoint speed, any action on the accelerator pedal will not allow this speed to be exceeded except in case of need.

Refer to the **"Exceeding the cruising setpoint speed"** chapter

Use of limitation setpoint speeds stored in memory

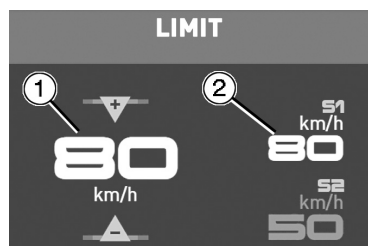
This function has 2 predefined set speeds in "S1" and "S2" which can be activated quickly and may be customized.

A short press on control (3) or (4) located under the steering wheel quickly activates set speeds "S1" or "S2".



To customize set speeds "S1" or "S2", adjust set speed (1) to the value required and store it in memory with a long press on control (3) or (4) located on the steering wheel.

The favourite set speed "S1" or "S2" is updated and an audible signal sounds as confirmation.



When the speed limiter function is first activated after start-up, in the event that the current speed is greater than set speed "S1" or "S2", the set speed or the "limit set speed exceeded" mode is active and the limitation only becomes effective after slowing down to below the set speed.

Exceeding the limitation setpoint speed

At any time, it is possible to exceed the setpoint speed; to do this, depress the accelerator pedal fully (kick down function).

During the time the speed is exceeded, set speed (1) flashes on the speed information display.

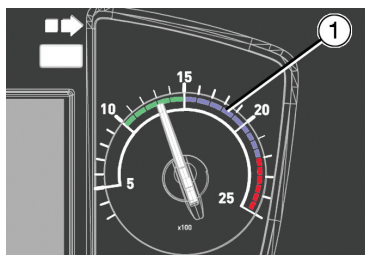
When you release the accelerator pedal, speed limiter mode is resumed automatically as soon as the speed is less than the setpoint speed stored in memory (1).



Maintaining the limitation setpoint speed

When going downhill, if necessary, the speed limiter automatically controls the various retarders to maintain the speed 2 km/h above the set speed stored in the memory.

A blue sector appears in rev counter zone (1) to indicate the engine speed at which retarder efficiency is optimal.



If the retarders cannot maintain set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.



Maintaining the limitation setpoint speed

If the exhaust brake cannot maintain the set speed (1), the speed flashes on the speed information display; it is necessary to use the brakes.

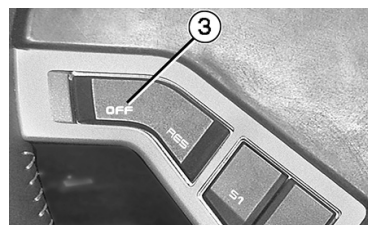


In this case it is recommended to memorize a lower speed and/or to downshift.

Speed limiter function standby

The function is suspended, indicator pictogram (1) is no longer displayed, memorised set speed (2) remains displayed if you press control (3) on the steering wheel.



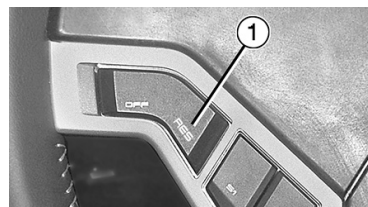


Recalling the limitation setpoint speed

If a set speed (1) is stored in memory on the speed information display, it is possible to recall it.



- Press control (1) located on the steering wheel; set speed (2) appears for a few seconds on the multifunction information display .

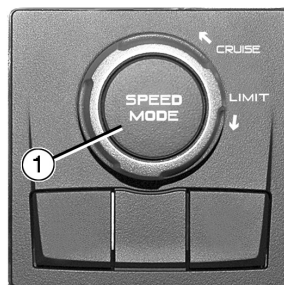


The "Limit" warning pictogram (1) reappears in addition to the set speed (2).



Deactivating the speed limiter mode

To deactivate the speed limiter mode, press control(1), the "Speed mode" indicator pictogram is no longer displayed.

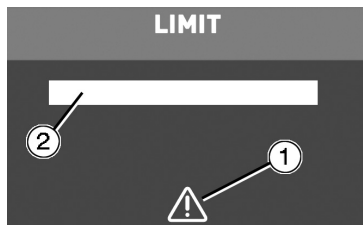


Warning pictogram and the limitation setpoint speed stored in memory disappear from the speed information display.



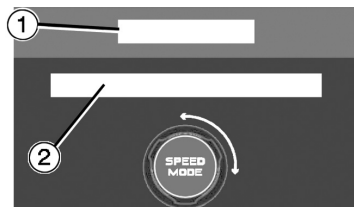
Fault present on speed limiter mode

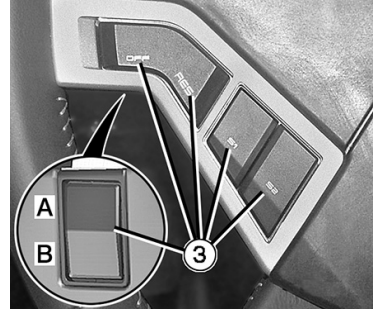
In the event of a fault on the speed limiter mode, warning (1) and a related message (2) appear on the multifunction information display; go to a RENAULT TRUCKS garage.



Use of controls with no mode selected

In the event of inadvertently pressing on one of the controls (3) on the steering wheel, the message "Speed Mode" (1) appears on the multifunction information display with a message (2) inviting you to select one of the modes.





Accelerator pedal

Depressing beyond a hard spot at the end of the pedal travel enables the driver to modify the gear shift management system to obtain optimum drive for the vehicle.



This function increases fuel consumption.

If the accelerator pedal fails

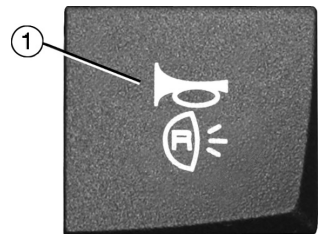
If the accelerator pedal has a fault, when starting up the vehicle, the information display will ask you to run a pedal check.

Follow the instructions carefully, then go to a Renault Trucks service point.

Reversing buzzer

When shifting to reverse gear, an audible warning signals to those in proximity that the vehicle is reversing.

A switch (1) deactivates the "buzzer" function.



"EBS" system

The "EBS" system manages vehicle braking and assures anti-lock braking and anti-slip regulator functions.

Anti-lock braking system "ABS"

This system prevents the wheels from locking under sharp braking.



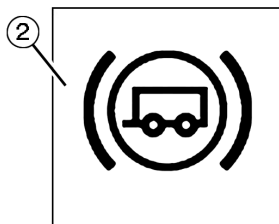
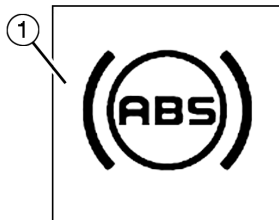
Depending on the trailer being used, the warning light disappears after a few seconds, even when the vehicle is stationary.

In the event of a fault

In the event of a system fault or malfunction, (warning pictogram(s) (1) / (2)), it is deactivated and the vehicle reverts to conventional braking. Contact a RENAULT TRUCKS garage quickly to repair the system.



In the event of an electronic control mode fault, the EBS system switches to pneumatic backup mode and a difference in feel on the brake pedal may be felt. Maximum braking power is still available when the pedal is depressed fully.

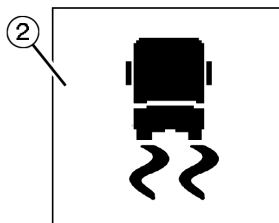


Anti-slip regulation "ASR"

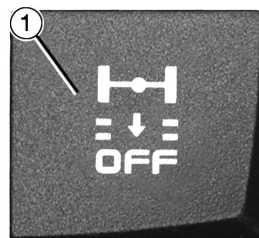
When you move away or under acceleration, this system prevents the wheels from slipping, whatever the condition of the road surface.

This function is activated:

- if a wheel slips, this wheel is braked to bring its speed into line with that of the opposite wheel;



- if two wheels slip, engine speed is limited then the slipping wheel is braked to bring its speed into line with that of the wheel opposite.



On the road

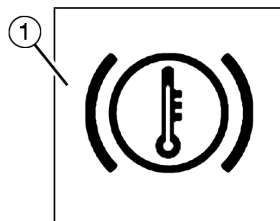
During operation of the ASR system, indicator pictogram (2) flashes.

On slippery road surfaces (snow, ice, gravel, etc.), the ASR can be deactivated by pressing switch (1). Warning pictogram (2) is displayed.

Brake temperature warning

If the brakes overheat, warning light (1) will appear on the information display.

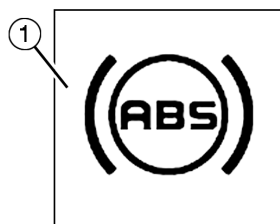
It is then necessary to adapt the vehicle speed and driving style. Use the retarder(s) if the vehicle is so-equipped.



Reduced braking performance warning

If the system detects a significant drop in braking performance of the tractor-trailer combination, warning pictogram (1) appears on the information display. It works in conjunction with the **"Service"** warning pictogram.

Have the tractor and trailer braking systems inspected by a RENAULT TRUCKS garage (brake test bench).



Brake fault warning

If the system detects a significant drop in braking performance on one of the tractor wheels, warning pictogram (1) appears on the information display. It works in conjunction with the **"Service"** warning pictogram.

Have the braking system on the wheel in question inspected by a RENAULT TRUCKS garage (brake test bench).

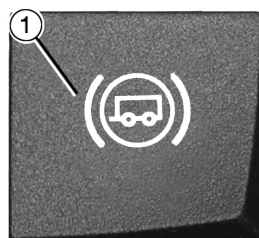
Trailer brake

Static trailer brake

Keep switch (1) pressed to brake the trailer.

The brakes will only be applied if the speed is below 4 km/h.

The brakes will be released once the speed exceeds 7 km/h or if the switch is released.



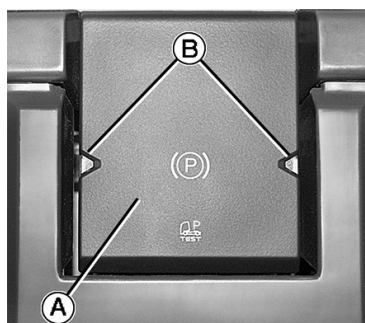
Emergency brake

In the event of a service brake fault on one axle, the other axle provides emergency braking efficiency.

Electrically controlled parking brake

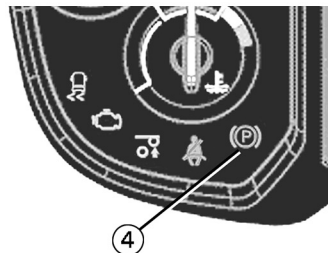
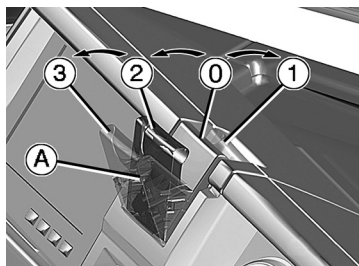
The parking brake is used to guarantee that the vehicle is immobilised when stopped. If the brakes fail, it can also be used as an emergency brake.

Parking brake control (A) works simultaneously on the axle(s) equipped with a parking brake and on the trailer brakes.



Manual release

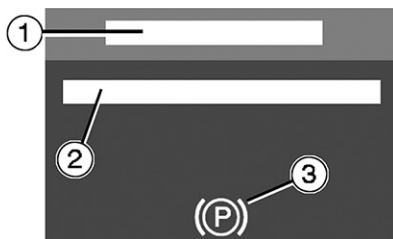
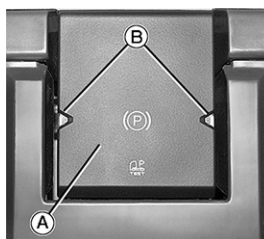
Depress the brake pedal, push parking brake control (A) from position (0) to position (1) and release it; it returns to position (0). Once the parking brake has been released, indicator pictogram (4) is no longer displayed.



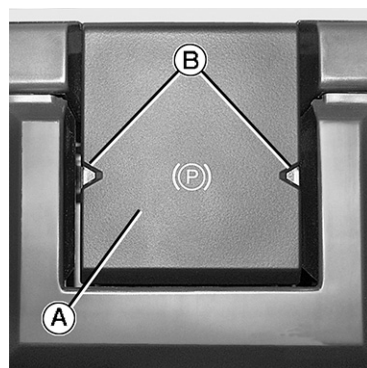
Indicator lights (B) for parking brake control (A) are no longer displayed and message (2) in information field (1) informs you that the parking brake is released.

The parking brake stays on:

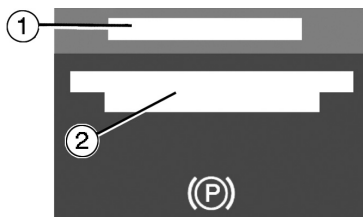
- in the event of forgetting to depress the brake pedal;
- in the event of forgetting to depress the brake pedal or the accelerator pedal if a gear is engaged.



Indicator lights (B) for parking brake control (A) are no longer displayed and message (2) in information field (1) informs you that the parking brake is released.



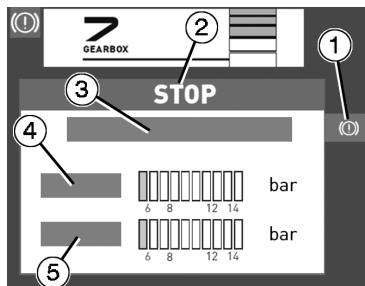
In the information area concerned (1), a message (2) on the multifunction information display tells you that you must depress the brake pedal or the accelerator pedal.



*If a gear is engaged, you may be asked to depress either the brake pedal or the accelerator pedal.
To use the accelerator pedal, the parking brake control (A) must be held in position (1).*

In the event of air pressure loss in the circuit:

- warning pictogram (1) is displayed;
- "STOP" warning pictogram (2) is displayed;
- message (3) informs you that the air pressure is too low and that the parking brake cannot be applied;
- front circuit pressure warning pictogram (4) is displayed;
- rear circuit pressure warning pictogram (5) is displayed.



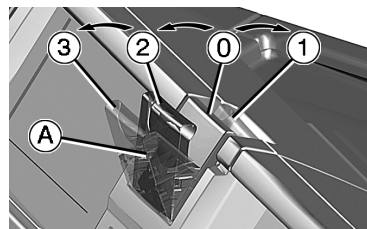
The parking brake cannot be released when the ignition is switched off or when the pressure in the air tanks is less than 7 bar.



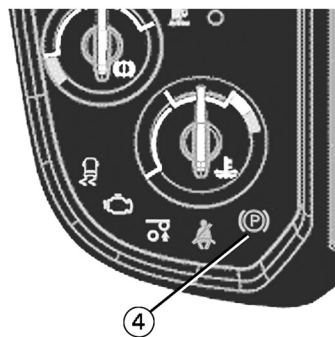
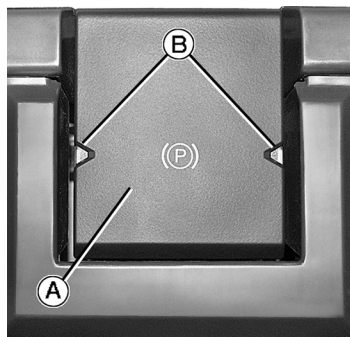
Regardless of the vehicle's ignition mode, you always have the option of operating the parking brake control to activate it.

Manual application

Pull parking brake control (A) from position (0) to at least position (2).

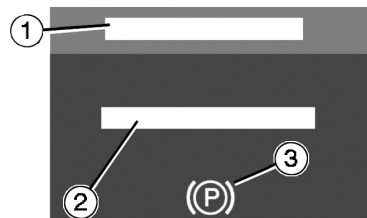


Release parking brake control (A); indicator lights (B) / (4) are lit.



Message (2) in the information area concerned (1) tells you that the parking brake is applied.

The vehicle is immobilized by the axle(s) fitted with a parking brake.



You must not leave the cab of the vehicle without checking that warning lights (B) / (4) are lit.

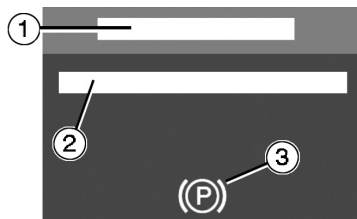


You must not leave the cab of the vehicle without checking that warning lights (B) / (4) are lit.

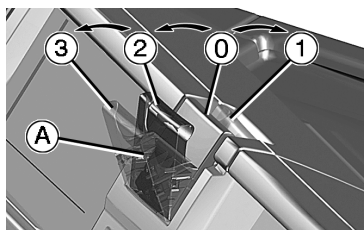


If you operate parking brake control (A) when the vehicle speed is greater than 7 km/h, the parking brake will be applied progressively depending on the position of control (A).

Message (2) in the information area concerned (1) informs you that the dynamic parking brake is activated.

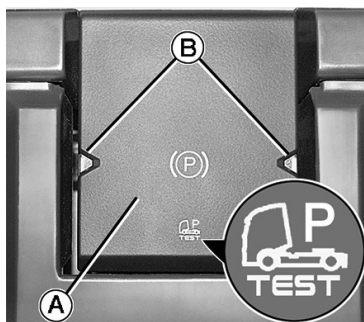


If you pull parking brake control (A) from position (0) to position (2) when the vehicle speed is greater than 7 km/h, the parking brake will not be applied.



Test

The function is present on your vehicle if the "test" logo appears on control (A).

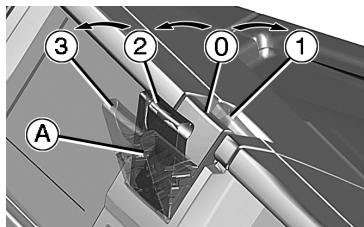


Before leaving the vehicle, ensure the parking brake is properly applied.

The parking brake must first be applied.

Move and hold parking brake control (A) from position (2) to position (3) passing through the hard spot.

Do not depress the brake pedal.

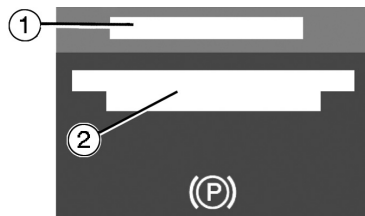


This position releases the trailer braking and the whole vehicle is immobilized by the tractor for a maximum of 10 seconds.

In the information area concerned (1), message (2) instructs you to check the stability of the tractor-trailer combination and ensure that the trailer brakes are temporarily deactivated.

This position serves to ensure that the tractor alone can hold the whole vehicle immobilized.

As soon as the control is released, it returns automatically to the parking position (0).



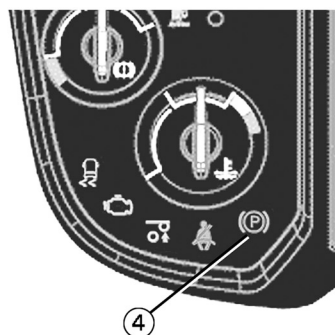
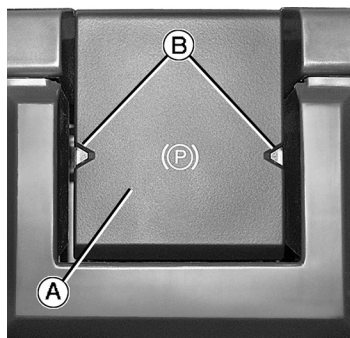
If your vehicle has a gross combination weight (GCW) of 60 tonnes, the parking brake also works on the front axle of the tractor.

Automatic operation

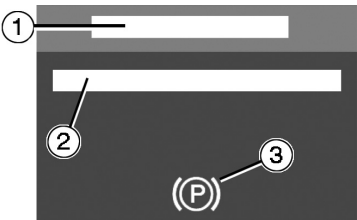
Application

The parking brake will be automatically activated when the ignition is switched off.

Indicator lights (B) / (4) are lit.



In the information area concerned (1), message (2) informs you that the parking brake is activated, and indicator pictogram (3) is displayed.



Engine stalling

When the engine stalls, the parking brake will be activated automatically 20 seconds after the ignition is switched off.

Loosening

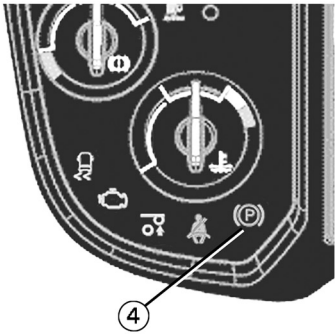
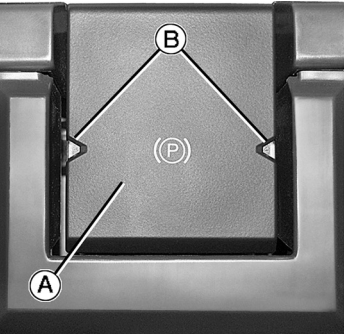
With the gear selector on "D" or "R", starting ratio engaged, start the vehicle by accelerating.

The brakes will be automatically released when there is sufficient engine torque.

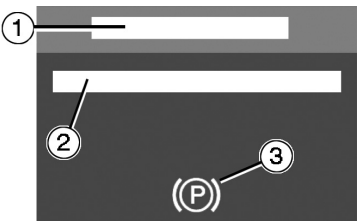
Moving away uphill

You can use the automatic release function for easier hill starting.

Warning lights (B) / (4) go out.



Message (2) the information area concerned (1) informs you that the parking brake is released.





With the parking brake activated, in the event of a door opening, the parking brake automatic release mode will be deactivated automatically.

Manual release of the parking brake is then mandatory to reactivate the function.

Parking brake not set alert

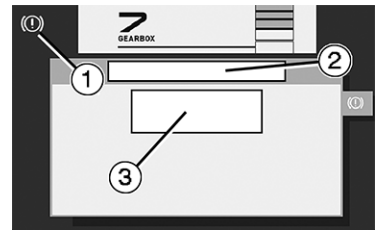
With the vehicle stationary, if you open the door (driver or passenger), a message and an audible signal will tell you that the parking brake is not applied.

The alert is deactivated if you depress the brake pedal or accelerator pedal.

Defective control

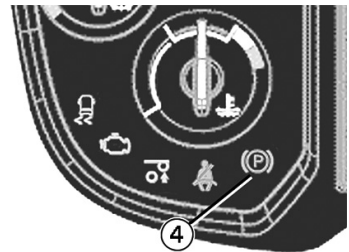
In the event of an anomaly affecting the parking brake control (A):

- warning light (4) flashes when driving;
- message (2) and an associated warning pictogram (1) prompts you to contact a RENAULT TRUCKS garage:
- message (3) informs you there is a fault on the parking brake.



The parking brake will be activated automatically as soon as vehicle speed is less than 7 km/h.

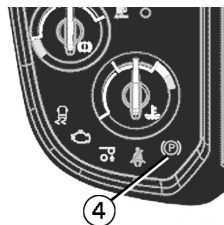
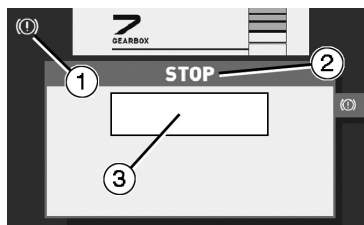
If the vehicle stops for more than 10 seconds, indicator pictogram (4) remains displayed.



The next time the vehicle is stopped, if the ignition is switched off for more than 1 minute, when the ignition is switched on again:

- the message "STOP" (2) and associated warning pictogram (1) appear on the multifunction information display;
- information message (3) is displayed and you must stop the vehicle;
- warning pictogram (4) appears on the multifunction information display.

Contact a RENAULT TRUCKS garage.



Before leaving the vehicle check that indicator pictogram (4) is displayed constantly.



In the event of parking brake failure, with the **"STOP"** light illuminated, stop on a flat surface and use the wheel chocks to immobilize the vehicle.

Hill start assist

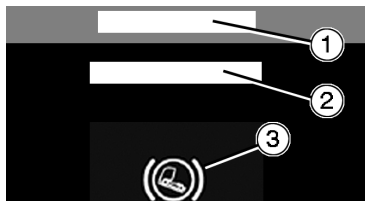
Hill Start Aid prevents the truck from rolling backwards when starting on an uphill gradient by maintaining braking performance until the truck is in traction mode.

This function is used to assist you when moving off from being stationary on a hill.

Hill start aid is activated/deactivated by a switch (1).



As long as the braking pressure is maintained, hill start assist page (1), associated message (2) indicating that the hill start assist function is active and indicator (3) appear on the multifunction display.



- prevent the vehicle from moving using the foot brake;
- press the switch, the hill start assist function is activated and the switch indicator light is illuminated;
- release the brake pedal, the vehicle remains immobilised for 3 second, the indicator remains displayed on the multifunction information display as long as the function is active;
- accelerate.



When the vehicle has moved off, the function is always deactivated.



The system is deactivated automatically after 3 seconds or as soon as engine torque reaches a sufficient level.



You may deactivate the function manually by pressing the switch.



Only use this function on inclines.

Diesel particulate filter

In order to protect human health and the environment, the Euro VI regulation imposes a new reduction in pollutant emissions.

A particulate filter is now mandatory.

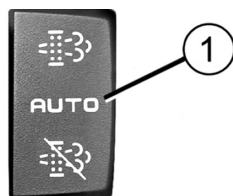
During regeneration, other than a slight increase in engine speed and a change in engine noise, you will not be informed that regeneration has been activated or deactivated. The regeneration process is performed automatically without any intervention from the driver.

Regeneration switch

Automatic regeneration

Switch (1), in "AUTO", position, allows particulate filter regeneration to take place without your intervention.

If deactivating regeneration, pressing the top part of switch (1) reactivates automatic regeneration.



Manual regeneration

Pressing the top part of switch (1) activates or stops manual regeneration.

Stopping regeneration

Pressing the bottom part of switch (1) stops a manual regeneration in progress or deactivates automatic regeneration.

Automatic regeneration

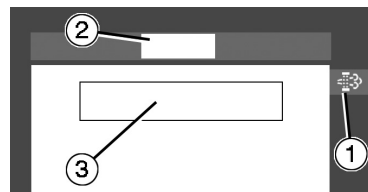
With the vehicle running, automatic regeneration starts as soon as the particulate filter reaches a high level of saturation and when all the conditions are met (vehicle speed, exhaust gas temperature, etc.).

During regeneration, the engine idling speed is slightly higher and the engine noise changes.

If one of the conditions is no longer met, automatic regeneration may be suspended. Once the conditions are met again, it starts again automatically.

If one of the warnings below appears, the conditions of vehicle use do not allow regeneration to ensure the complete elimination of the particulates.

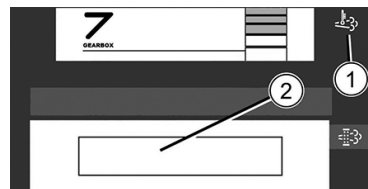
When warning pictogram (1) is displayed and an associated message (2) informs you of the requirement to **visit a workshop**, message (3) informs you that the particulate filter is clogged. In this case, contact a RENAULT TRUCKS garage as quickly as possible.



If you ignore the warnings concerning regeneration, reduced engine performance and/or damage to the particulate filter may occur that would require it to be replaced.

Five minutes after starting regeneration, pictogram (1) and message (2) are displayed. They inform you that the temperature of the exhaust gases is high.

When regeneration is complete, pictogram (1) and message (2) are no longer displayed.



Uninterrupted, automatic regeneration takes approximately one hour. For optimal regeneration of your particulate filter, avoid switching off the engine or stopping for prolonged periods during the regeneration process.



DIRECT CONTACT WITH OR INHALATION OF DIESEL PARTICULATE MATTER OR SOOT CAN RESULT IN SERIOUS INJURY OR DEATH. IF YOU HAVE TO CHANGE THE PARTICULATE FILTER FOR OPERATIONAL OR TECHNICAL REASONS, CONTACT A RENAULT TRUCKS GARAGE.



If the vehicle is used for short distances or with low loads, automatic regeneration may be insufficient.



Automatic regeneration continues in operation for a few minutes during a short stop (stop sign, traffic lights, etc.), with the engine running.



If the parking brake is applied for more than four minutes during regeneration, regeneration is suspended automatically.



The regeneration process is suspended if the engine is switched off. The regeneration process is resumed only once all conditions are met.

Manual regeneration

Safety



THE EXHAUST GASES EMITTED DURING THE MANUAL REGENERATION PROCEDURE PRESENT A RISK OF POISONING. PARK OUTSIDE OR IN A VENTILATED AREA ONLY.



Before starting static manual regeneration, it is essential to comply with the following recommendations:

- *Park the vehicle outside, on a tarmac or gravel surface (no risk of heat propagation or damage);*
- *Check to make sure that there are no flammable materials near the exhaust outlet;*
- *Ensure that the exhaust outlet is not directed towards objects or structures that could be damaged by high temperatures.*



PARK THE VEHICLE, MONITOR TRAFFIC CONDITIONS, AND LEAVE THE ENGINE RUNNING.



DURING MANUAL REGENERATION, WHEN THE VEHICLE IS STATIONARY, STAY CLOSE TO THE VEHICLE IN ORDER TO SUPERVISE THE PROPER FUNCTIONING OF THE WHOLE SYSTEM AND TO PREVENT ANY OBJECT OR PERSON FROM COMING CLOSE TO THE EXHAUST.

STOP

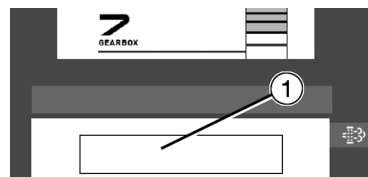
DIRECT CONTACT WITH OR INHALATION OF DIESEL PARTICULATE MATTER OR SOOT CAN RESULT IN SERIOUS INJURY OR DEATH. IF YOU HAVE TO CHANGE THE PARTICULATE FILTER FOR OPERATIONAL OR TECHNICAL REASONS, CONTACT A RENAULT TRUCKS GARAGE.

Operation

In some operating conditions, such as frequent stopping and/or low engine loads, automatic regeneration of the particulate filter does not take place or may be less than optimal.

In these conditions, static manual regeneration of the particulate filter is necessary.

Message (1) informs you that regeneration is required, with the vehicle stationary.



Conditions necessary for manual regeneration:

- there must be a sufficient level of contamination in the particulate filter;
- the power take-off(s) is/are deactivated;
- the accelerator pedal is released;
- Fast idle speed regulation control disable ;
- the gear selector is in neutral;
- the vehicle is stationary;
- the parking brake is applied;
- the engine must have reached a normal operating temperature;
- the exterior temperature must be greater than -30°C ;
- the system must be free from all defects.

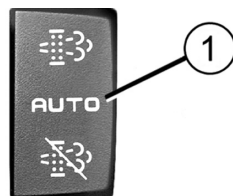
Static manual regeneration lasts between 30 and 70 minutes.



If these conditions are not met, you will receive a message informing you of the condition(s) required to perform manual regeneration.

Particulate filter

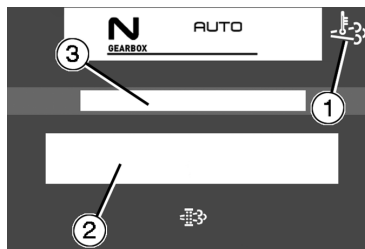
Press on the upper part of regeneration switch (1) for 1 second(s) to start manual regeneration.



5 minutes after starting regeneration, pictogram (1) is displayed. It informs you that the temperature of the exhaust gases is high.

Message (2) with the heading **PARTICULATE FILTER** (3) indicates that the exhaust temperature is increasing and that the vehicle must be parked in a suitable area.

Engine speed increases.



If one of these conditions is broken while a manual regeneration is in progress, it is interrupted and a message reports which condition is no longer met.

End of regeneration

When regeneration is complete, high temperature warning pictogram (1) remains displayed until the exhaust gas temperature returns to a normal level.

Message (2) with heading **PARTICULATE FILTER** indicates that regeneration is complete.



Stopping the regeneration in progress

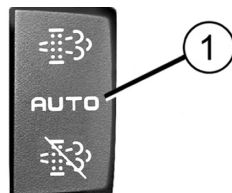
Once a static manual regeneration has been started, it is recommended that it not be interrupted.

It is not possible to carry out manual regeneration over several sessions. The system does not take partial regeneration into account and restarts complete regeneration when the next request is made.



A new regeneration will be possible after a specific time period has elapsed.

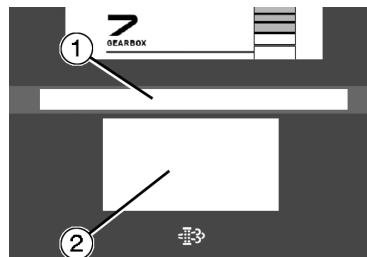
However, it is possible, in emergency scenarios, to interrupt a manual regeneration in progress by pressing the top part or bottom part of switch (1) again.



Regeneration is not possible

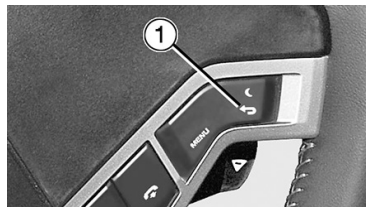
Regeneration is interrupted if one of the conditions required for this regeneration is not met.

In this case, message (2) with the heading **PARTICULATE FILTER** (1) indicates the cause of the regeneration interruption.



A delay of 30 seconds is imposed between each attempt. Pressing button (1) before the end of this delay has no effect.

To delete the message, press button (1) on the steering wheel.



Immediate regeneration

If no action is taken after the warning above:

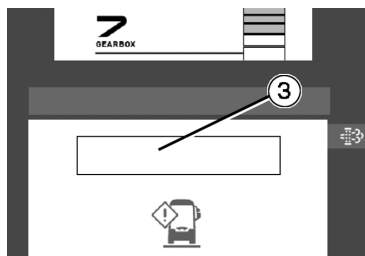
When clogging reaches a critical level, message (3) **"Carry out regeneration IMMEDIATELY"** is displayed.

When clogging reaches a critical level, message (3) **"Carry out regeneration IMMEDIATELY"** is displayed.

In this condition, an engine torque reduction phase is applied in order to protect the system.

If you start a manual regeneration, message (3) remains displayed until the regeneration is complete.

If you do not start a manual regeneration, message (3) disappears, then reappears after a few minutes.



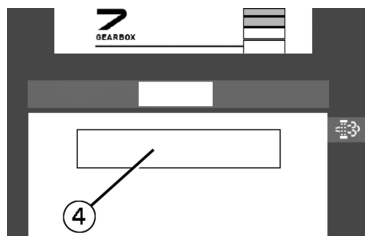
Particulate filter clogged

If no action is taken after the warning above:

When particulate filter clogging reaches the maximum level, message (4), indicating the need for assistance, is displayed on the multifunction information display.

An audible alert sounds.

In this condition, a strong engine torque reduction phase is applied in order to protect the system. It is then no longer possible to trigger a static manual regeneration by pressing the button.



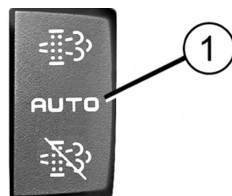
In this case, you must visit a RENAULT TRUCKS garage as quickly as possible, as indicated in message (4).

Regeneration interrupted or function deactivated

During regeneration, gases at very high temperatures are emitted via the exhaust. For safety reasons in a danger zone, if you are transporting dangerous goods, for example, you can deactivate the automatic mode. In this case, automatic regeneration cannot start and, if it is in progress, it is interrupted.

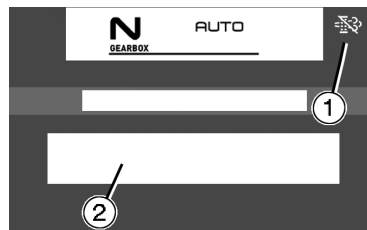
The interruption or deactivation of automatic regeneration involves a speed limit of 40 km/h.

To interrupt a regeneration in progress or to deactivate automatic regeneration, press the bottom part of switch (1).



If there is no regeneration in progress and the speed is below 40 km/h:

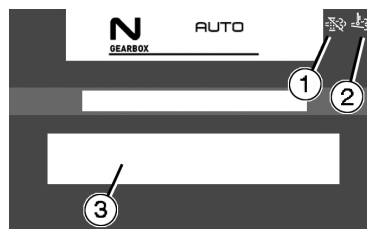
Regeneration deactivation pictogram (1) is displayed and message (2) informs you that automatic regeneration is deactivated and that speed is limited to 40 km/h.



If regeneration is in progress and the speed is below 40 km/h:

Regeneration deactivation pictogram (1) is displayed.

Pictogram (2) indicating high exhaust gases associated with regeneration remains displayed until the temperature returns to a normal level.



Message (3) informs you in turn that regeneration has been interrupted, that speed is limited to 40 km/h, then that the exhaust gas temperature is very high.



If the speed limit condition is not complied with, a message is displayed indicating that regeneration cannot be interrupted or deactivated.

Gearbox, use

The Optidriver+ gearbox selects the right gear to match the speed and the driving at the right time to guarantee better mobility and more comfortable driving.

It thereby offers many advantages compared to a mechanical gearbox in terms of its performance, user comfort, safety and profitability.

Optidriver gearbox



*Gearboxes are fitted with an oil pump for lubrication (for towing, refer to the **Breakdown recovery, quick repair** section).*

Optidriver system

First of all, we will briefly take a look at the main functions of your gearbox before going into more detail in the next section.

The Optidriver system determines then automatically engages a suitable gear ratio as a function of the vehicle load, road gradient, accelerator pedal position and whether or not the retarders are activated. It improves comfort and safety, reducing driver fatigue because they only need to concentrate on traffic conditions.

The Optidriver system may be used in two different ways: in integral automatic mode or in manual mode. It is strongly recommended to use it in integral automatic mode in order to benefit from optimised management of the driveline.

First contact with Optidriver

Starting the vehicle

The Optidriver system is automatically in neutral.

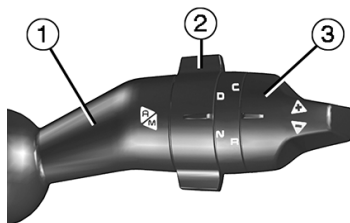
Start the engine.

With the parking brake engaged, move the line on ring (2) to opposite mark "D".

The starting gear is engaged.

Depress the brake pedal and release the parking brake.

Release the brake and operate the accelerator pedal: the vehicle moves forwards.





You are recommended not to modify the position of the accelerator pedal when changing gear.

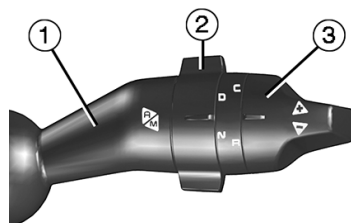


The vehicle may move with the parking brake applied, even if the throttle pedal is not activated; use the brake pedal to keep it immobile.

Manoeuvres

Selecting first gear

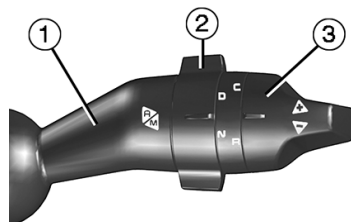
With the vehicle stationary, move line on the ring (3) on selector (1) to opposite mark "C".



Shifting to reverse gear

With the vehicle stationary, move line on the ring (3) on selector (1) to opposite mark "R".

The system engages first reverse gear R1. With reverse engaged, move the selector backwards (–) to shift from R1 to R2 (or from R2 to R3) and forwards (+) to shift from R3 to R2 or from R2 to R1.



For preference start in R1.

Shifting from R1 to R2 can be done with the vehicle moving at a recommended engine speed greater than 1000 rpm.



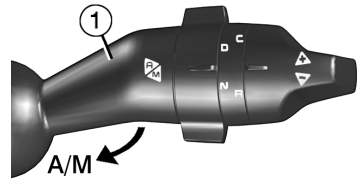
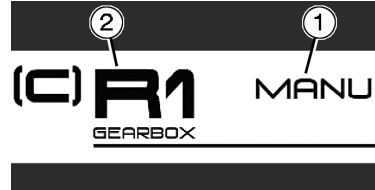
An audible "beep" indicates a change of direction, from forward drive to reverse or from reverse to forward drive.



*Fast reverse gear R3 must not be used for manoeuvring.
Only to be used in exceptional situations requiring rapid movement in reverse.*

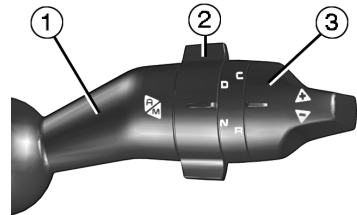


*When reverse gear is selected, the **"Manu"** (1) and **"R(x)"** (2) information is displayed. Perform your manoeuvre and switch to integral automatic mode by positioning the selector to face the **"AM"** marking.*

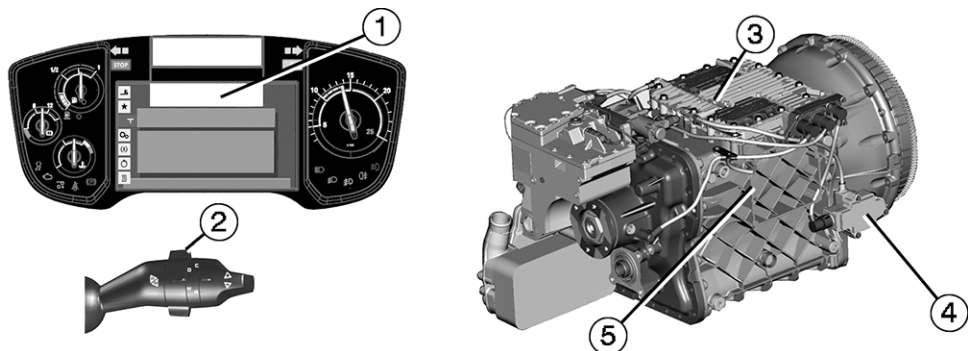


Stop

Move the line on ring (2) of gear selector (1) to opposite the "N" mark to shift the gearbox into neutral and engage the parking brake before leaving the vehicle.



Description of Optidriver



The Optidriver has 5 main components:

- gear information display (1),
- a gear selector (2) with integral control unit,
- a speed control module (3) with integral control unit,
- a clutch control device (4),
- a mechanical crash gearbox (5).

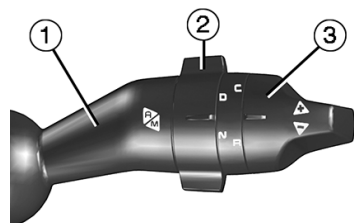
Gear selector (1)

Gear selector (1) can be moved in three directions for driving and has two rings (2 / 3) for shifting into neutral and for "manoeuvring" mode:

Ring (2): "N"/"D" positions

Move the ring to "N", the gearbox shifts to neutral.

Move the ring to "D", the gearbox engages the starting gear.



Ring (3): "C"/"R" positions ("manoeuvring" mode)

Toggle the ring to "C"; the gearbox engages the 1st forward gear and switches to manual mode.

Toggle the ring to "R"; the gearbox engages the 1st reverse gear and switches to manual mode.

Push the selector towards you once ("A/M") to return to "automatic" mode and exit "manoeuvring" mode.

Forwards (level with the steering wheel): "+" position

Corrects automatic driving mode by shifting into higher gears.

Back (level with the steering wheel): "-" position

Corrects automatic driving mode by shifting into lower gears.

Towards you (as when "flashing the headlights"): "A/M" position

Push the selector once to switch from automatic mode to permanent manual mode or vice versa.



The system refuses to engage gears which can lead to an engine overspeed or underspeed.

Starting gear

Move ring (2) on gear selector (1) from "N" to "D".

In automatic mode, the system engages the optimum starting gear as a function of the vehicle load and the gradient of the road.



The starting gear can be changed but the use of an unsuitable higher gear could result in premature wear of the clutch. The gear ratio selected by the gearbox may be corrected within an upper limit of two gear ratios, 5th gear is the highest selectable gear ratio, or 6th gear if using a power take-off.

Hill starts

Start the engine, the correct gear will be engaged on shifting into mode "D".

Depress the accelerator pedal.

The vehicle moves forwards.

Starting downhill

Start the engine, the correct gear will be engaged on shifting into mode "D".

The vehicle moves forwards (the clutch engages).



If you move the selector from position "N" to "D" while the vehicle is moving forwards, the system chooses a ratio suitable for the speed at which it is moving and the clutch engages.



If shifting from "N" to "D" takes place when the vehicle is travelling in reverse gear, the system will slow the vehicle to a stop to allow shifting into forward starting gear.



It is not recommended to allow the vehicle to roll back with the gear selector in the neutral position.

Changing into neutral

The gearbox automatically shifts into neutral position when switching the ignition off (engine stopped).



Engine retarder

It is not necessary to deactivate the engine retarder when shifting gear. The system deactivates then reactivates it automatically at the end of each gear shift.



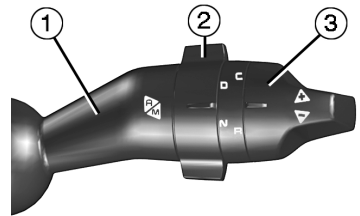
During some gear shifts, the engine retarder is activated by the system to improve the gear shifting time.

Stop



With the engine running, before leaving the vehicle:

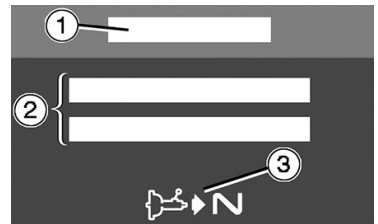
- move ring (2) on gear selector (1) to position "N",
- engage the parking brake.



If the driver opens their door to leave the vehicle while position "D" is selected, the information area concerned (1) is displayed, together with a message (2), an audible signal and a pictogram (3) prompting you to select position "N".

Stopping and shutting down the vehicle

When the vehicle is completely immobilised, engage the parking brake, position ring (2) on gear selector (1) in position "N" and stop the engine with the ignition key.

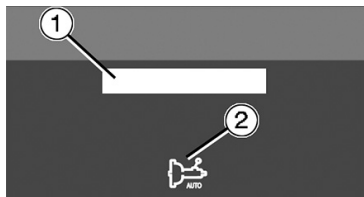


Clutch protection

Any clutch overheating incident is reported by displaying a warning pictogram (2) and a message "CLUTCH OVERHEATING" (1).

Excessive use of clutch slip is no longer possible.

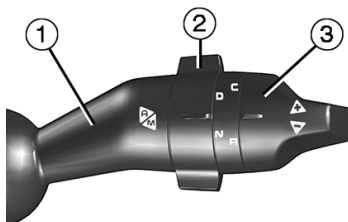
- On acceleration the clutch is engaged, which could cause the engine to stall.
- If you release the accelerator during the slip phase, the clutch disengages.



If warning pictogram (2) is displayed during the clutch engagement phase and the vehicle is moving, continue to drive to cool the clutch.



If warning pictogram (2) is displayed during the clutch engagement phase and the vehicle is not moving, reduce the engine speed to idling and hold ring (2) of lever (1) on "D" until the warning pictogram (2) is no longer displayed.



To prevent clutch wear:

- accelerate enough to start,
- use the starting gear selected automatically by the system or a lower gear.



Never use the accelerator pedal to hold the vehicle immobile on a hill.

Overspeed protection

The system prevents the engagement of gear ratios that could result in overspeed.

Operating faults

Dashes (1) are displayed when the current gear selection is incorrect, not available or outside of expected values.



Dynamometer mode (2 wheels)

After installing the vehicle on the rollers.

With the vehicle stationary, engine running:

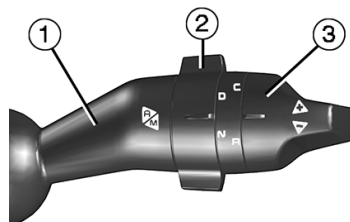
- move ring (2) on gear selector (1) from "N" to "D",
- fully depress the accelerator.

The engine will accelerate up to its maximum speed. After a few seconds, gear shifts will be made automatically.

The gearbox is now in its "test bench" mode.

Information:

- upshifting: the gears will shift 2 by 2 at approximately 1700 rpm;
- downshifting: on deceleration, the gears will shift at around 1100 rpm.



Gear shifting is not optimised. The dynamometer mode does not permit fuel consumption measurements.

Exiting dynamometer mode

Dynamometer mode is exited:

- once the vehicle front wheels are turning;
- 10 seconds after the ignition is switched off at the key.

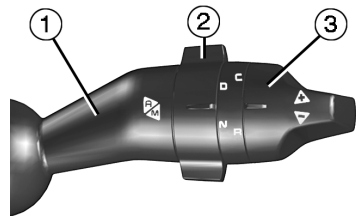
The normal gear shift mode is restarted.

Activation in low temperatures

In external temperatures below -20°C, let the engine run for 10 minutes to reach gearbox operating temperature.

Integral automatic mode

Whenever the engine has been started, when you move ring (2) on gear selector (1) from position "N" to position "D", suitable starting gear (4) and the information "Auto" (5) are displayed by default.



Shifting by one or more gears is performed automatically as a function of the accelerator pedal position.

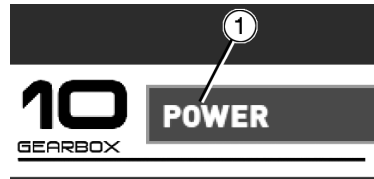


For upshifting, let the system manage the gear changes, even if you feel the engine speed seems too low.



"Power" function activation

When you wish to overtake and have more power in order to have maximum vehicle mobility, fully depress the accelerator pedal beyond the hard point: the message "Power" is displayed.



The "Power" function increases fuel consumption and should only be used in cases of absolute necessity.

Deactivating the "Power" function

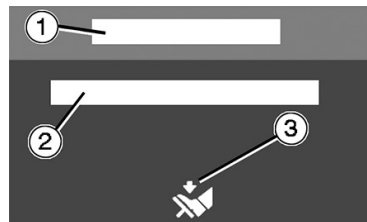
Release the accelerator pedal slightly, the "Power" message (1) is no longer displayed.



The **"Power"** function will be overridden if the **"Off-Road"** function is activated (refer to the **driving on difficult terrain** section).

Use downhill

When slowing the vehicle (brake or retarder(s) actuated), if you are driving down a steep downhill route and the engine speed is high (close to engine overspeed) and the accelerator pedal is released completely, there is no automatic gear shifting; this allows the driver to maintain control of the vehicle speed. In this scenario, the information section concerned (1) is displayed with an associated message (2) and pictogram (3) indicating the procedure to follow.



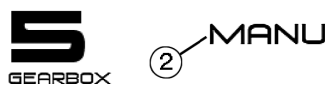
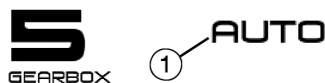
With the retarder(s) inactive and brake not applied, if you are running downhill, the system will automatically upshift in order to protect the engine from an overspeed and to optimise vehicle acceleration.

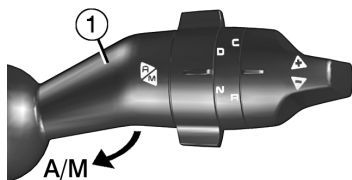


Depressing the accelerator pedal firmly would be interpreted as a request for maximum mobility and therefore have the undesirable result of shifting up several gears.

Permanent manual mode

To switch from automatic mode (**"Auto"** (1) message displayed) to permanent manual mode (**"Manu"** (2) message displayed) or vice-versa, push **"A/M"** on the selector lever towards you. This can be switched with the vehicle stationary or being driven.

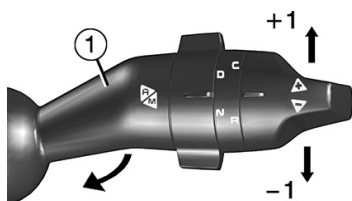




Changing gear

Changing a single gear:

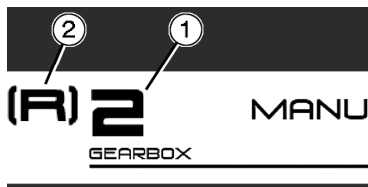
to shift up or down by a single gear, actuate selector (1) at the side of the steering wheel upwards (+) or downwards (-).



It is possible to request skipping several gears by linking together as many successive presses needed for the required gear, the system will automatically limit the gear to be engaged according to the risk of under-revving or over-revving.



In the event of changing gear or vehicle direction, the system can display the gear requested (2) in addition to the gear engaged (1).



If there is a request to change direction, if the vehicle is not stopped within a period of 5 seconds, this request will be disregarded and the display of the requested gear will be cleared.

If the speed is above 10 km/h, the request will not be accepted and there will be no specific display.

In forward gear at low speed, or when stationary, reverse gear can be selected:

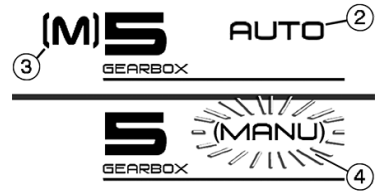
- bring the "R/C" selector ring to the "R" position.

In reverse gear at low speed, or when stationary, forward gear can be selected:

- move the **"R/C"** selector ring into position **"C"**; 1st gear is selected in manual mode;
- pull selector (1) towards you in the **"A/M"** direction; automatic mode is activated with the starting gear.

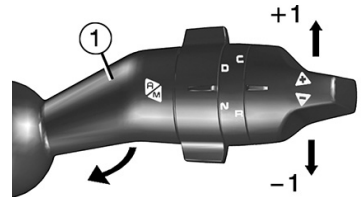
Temporary manual mode

The vehicle is moving, in **"AUTO"** mode, information (2) is displayed. If you wish to shift the gear ratio engaged by the system in anticipation of a change in the road topography, you may shift up or down by one or more gears by combining as many successive presses using selector (1) for the number of gear shifts required (+) or (-), without requesting manual mode. Information (3) then **(MANU)** (4) are displayed: the vehicle is in temporary manual mode.



There are several ways of returning to **"Auto"** mode:

- take your foot completely off the accelerator pedal and depress it again;
- activate the **"cruise control"** feature;
- activate the retarder control "max" mode;
- move selector (1) towards you in the direction of **"A/M"**.



When the statutory road speed is reached or when the vehicle stops, the gearbox will be operating in automatic mode again.

Limp home mode (selector disconnected or broken)

You may select neutral by applying the parking brake.

In **AUTOMATIC** mode you can engage the starting gear by taking the parking brake off then depressing the brake pedal.

In both cases, go to the nearest **RENAULT TRUCKS** garage.

Optidriver "XTENDED" gearbox

Description

The Optidriver "XTENDED" gearboxes have an extra-slow gear.

Crawler gears are among the calculated starting gears, like the other gears and regardless of mode (AUTO or MANUAL).

You can select crawler gears at any time in (AUTO) or (MANUAL) (temporary manual) mode, by moving steering-wheel-mounted selector (1) towards (+) or (-).

Depending on your vehicle's equipment

Optidriver "XTENDED" gearboxes have five reverse gears.

Gears "R1", "R2" and "R3" are slow reverse gears; they can be selected when stationary or when moving.

Gears "R4" and "R5" are fast reverse gears; you can select gear "R4" or "R5" only when stationary.

It is recommended to start in "R4" then shift to "R5" when moving.

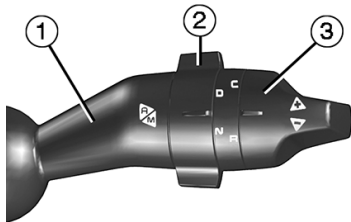


The system refuses to engage gears which can lead to an engine overspeed or underspeed.

Manoeuvring mode

Forward drive

When stationary or when moving, move ring (3) on selector (1) to mark "C".



Reverse gear



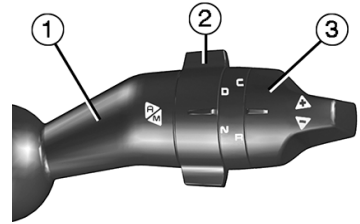
In reverse, the logic for (+) and (-) is inverted compared to forward drive.

Moving steering-wheel-mounted selector (1) downwards (+) shifts up one reverse gear.

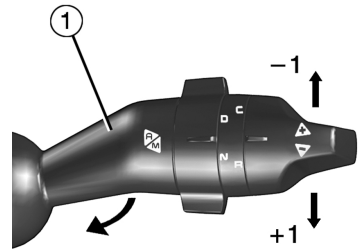
Moving steering-wheel-mounted selector (1) upwards (-) shifts down one reverse gear.

When stationary or when moving, move ring (3) on selector (1) to mark "R".

By default, the system engages gear "R2".



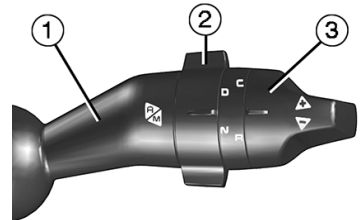
When stationary or when moving, you can shift to gear "R1" or "R3". To do this, move steering-wheel-mounted selector (1) up (-) or down (+).



Fast reverse

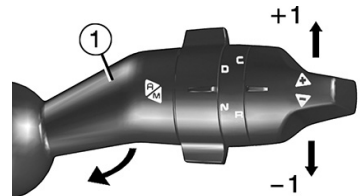
When stationary, move ring (3) on selector (1) to mark "R".

By default, the system engages gear "R2".



When stationary, you can move off with gear "R4". To do this, move steering-wheel-mounted selector (1) downwards (+).

When moving, you can shift to gear "R5". To do this, move steering-wheel-mounted selector (1) downwards (+).





When stationary, you can select gear "R5" directly depending on operating conditions.



When gear "R4" is engaged, the message "Clutch wear" is displayed.

Depending on your operation, gear "R4" supports manoeuvring mode without damaging the clutch.

Power take-off

With an Optidriver "XTENDED" gearbox, you can use a power take off when moving with the crawler gears as well as with the other gears depending on your vehicle's parameter settings.

Retarder

The auxiliary brake is a brake function in addition to the truck's normal service brake. It works in the truck's drive system, as exhaust brake or retarder.

Use the auxiliary brake to avoid overheating in the wheel brakes and to reduce wear on the brake linings.

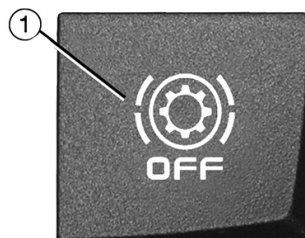


Always select the gear ratio that allows you to use the engine at its most efficient speed. If the road surface is damaged, use the retarder function if possible.

Never coast downhill in neutral.

Do not use the retarder function on slippery road surfaces.

Deactivate automatic operation via switch (1).

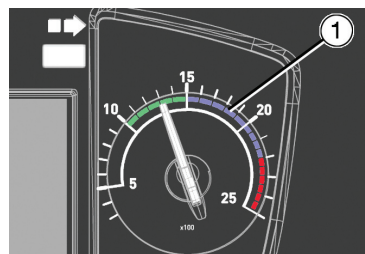


An indicator (1) informs you of the position of the retarder control.



While the retarder function is active, a blue sector appears in the tachometer (1). This blue sector indicates the maximum efficiency band of the retarder(s).

The engine braking and prop shaft retarder are prohibited in ABS and ESC phases.



Never let the engine speed reach the red zone (engine overspeed).

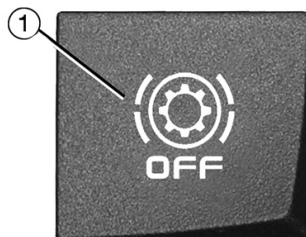
A single control located under the steering wheel activates the different retarders.

Switch

A press on control (1) deactivates the automatic function of coupling the retarder with the foot brake (main brake).



Each time the vehicle is restarted, the coupling of the retarder with the foot brake is active, control (1) is therefore used for uncoupling and recoupling.



The exhaust, engine and gearbox-mounted retarder function is active each time the brake pedal is actuated if the retarder control (1) is in position 0.



The retarder function is deactivated when the brake pedal is depressed for the first 5 times after the ignition is switched on.

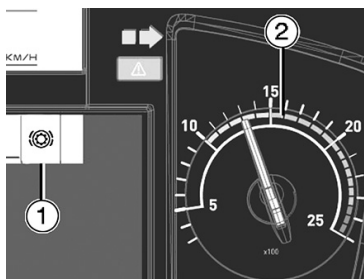


The braking power is modulated as a function of the vehicle load and the pressure exerted on the brake pedal. Indicator pictogram (1) is no longer displayed.

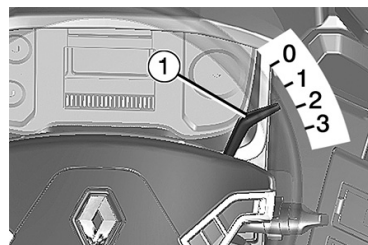
Coupling of the retarder and the cruise control (constant speed)

Indicator pictogram (1) is displayed, as well as the rev counter blue sector (2) if the gearbox and/or engine retarder functions are active.

See chapter **Driving**.



Depending on the change in gradient, select the gear for descent using the gearbox combinations. To slow the vehicle speed, release the accelerator pedal and move control (1).

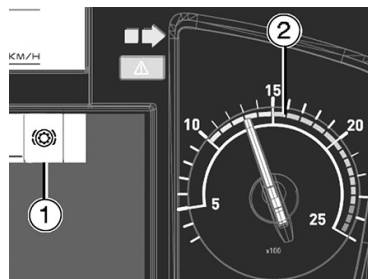


- Position 0:

The feature is not active: indicator (1) and the rev counter blue sector (2) are not displayed.

All the selector positions, except for 0, with action on the accelerator pedal.

The exhaust brake plus engine retarder feature is pre-selected but not active: indicator (1) and the blue zone on the engine operating speed indicator (2) are displayed.



- Position 1 without action on the accelerator pedal:

The exhaust brake plus engine brake feature is active at about 50% of torque efficiency depending on vehicle load: indicator (1) and the rev counter blue sector (2) are displayed.



The blue sector indicates the maximum efficiency band of the retarders.



Never let the engine speed reach the red zone (engine overspeed).

- Position 2 without action on the accelerator pedal:

The exhaust brake plus engine brake feature is active at 100% of torque efficiency: indicator (1) and the rev counter blue sector (2) are displayed.

- Position 3 (MAX mode activated) without action on the accelerator pedal:

Retarder

The exhaust brake plus engine brake feature is active at 100% of the maximum torque possible: indicator (1) and the rev counter blue sector (2) are displayed.



The engagement of "MAX" mode controls downshifting of the Optidriver gearbox, enabling the engine speed to be raised and thus increasing deceleration. This position is unstable.

Differential locks

The differential lock forces the drive wheels on the same axle to rotate at the same speed. Sometimes the differential lock is required in order to maintain traction when driving in road slippery conditions (for example, ice, sand, mud). Only use the differential lock at low speeds and without turning the truck.

In necessary, engage the differential locks in the following order:

- Rear inter-wheel
- Rear inter-axes

Note that differential locks make steering more difficult, and the vehicle does not react as fast to changes in direction.

You should only engage the differential locks when the grip conditions require it (risk of breaking axles and accidents).

Locks should be disabled as soon as possible, in the reverse order to engagement.

Do not use:

- on ground with good adherence (road),
- on bends:
- when the vehicle is fitted with a non-skid device (chains, etc.).

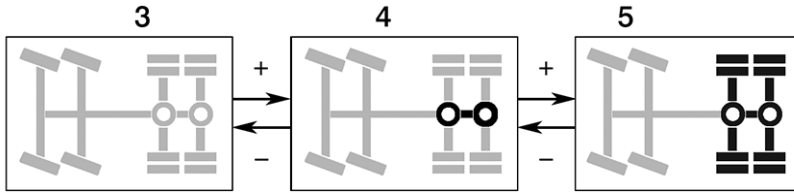
Engagement of differential locks

On surfaces with poor levels of grip or on approaching a slippery road area, while driving without changing speed, speed below 30 km/h, turn control (2).

The differential locks are engaged via rotary control (2), according to a pre-defined order.



A drop in engine speed may occur if the engagement conditions are not met.



Indicator pictogram (3) shows no differential lock engaged.

Turn control (2) by one notch to engage the inter-axle differential lock; indicator pictogram (4) is displayed on the multifunction information display.

Turn control (2) by one more notch to add the rear drive axle inter-wheel differential lock; indicator pictogram (5) is displayed on the multifunction information display.



The differential locks are engaged through the rotation of one or more notches of thumb-wheel (2) in the (+) direction.



Never engage a differential lock if one of the drive wheels is slipping. If it is, declutch and turn control (2) to select the differential lock. Engage the clutch and do not accelerate until the warning pictogram is no longer displayed on the multifunction information display.



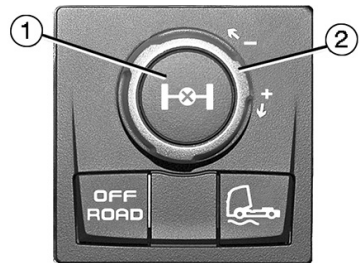
For negotiating a steep hill (whatever the nature of the ground), use the inter-axle differential lock.

Disengagement of differential locks

Press on button (1) to disengage all the differential locks.

Or turn control (2) in the (-) direction to disengage the differential lock(s) one by one.

The differential lock engaged indicator pictogram should disappear from the multifunction information display. If it does not, turn slightly to the left and to the right while driving slowly to disengage the dog clutch and make the pictogram disappear.





The differential lock disengages automatically as soon as the speed is greater than 35 km/h. When the speed falls back below 30 km/h, it re-engages automatically.

Driving on difficult terrain

Activation of this mode allows a starting gear lower than that selected for road use. This starting gear adaptation is active in manual and automatic modes.

The goal is to preserve the transmission and improve manoeuvrability when operating on difficult terrain.

In automatic mode, the gear shift strategies are modified to allow slightly higher engine speeds to be reached and therefore engine performance is improved. This results in less gear shifts.

To activate this mode, press control (1); the backlit indicator on the control is extinguished. Indicator pictogram (2) appears on the multifunction information display.

To deactivate this mode, press on control (1), the backlit indicator of control (1) goes out.



*Ensure that **OFF ROAD** mode is not left activated for road use as this would result in a slight increase in fuel consumption.*



*Activate the **OFF ROAD** mode once the PTO exceeds 70 tonnes.*

Manual accelerator on difficult terrain

This function is used to extract the vehicle from difficult terrain if it is stuck in the mud; i.e.: by stabilising engine speed (and therefore vehicle speed) on difficult terrain.



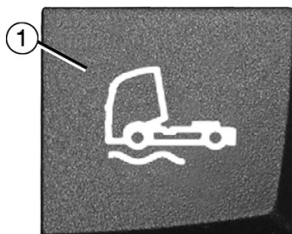
This function switched the Optidriver to manual mode.

Activating the function

Press control (1).

The current engine speed will be maintained.

It is then possible to shift up or down gears.



If the rolling resistance of your vehicle becomes greater than the engine torque, the engine speed will drop until it reaches a speed close to idling; the function will be inhibited to allow opening of the clutch.

Simply accelerate until the clutch closes to re-engage the function.



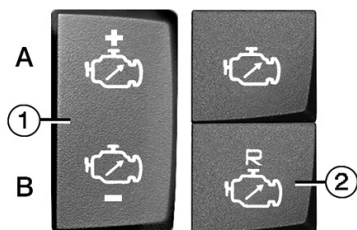
The function is deactivated automatically by actuating the brake pedal, pressing control (1) again or if the vehicle exceeds 30 km/h.

The engine speed can be changed to 1700 rpm.

To fine tune the speed:

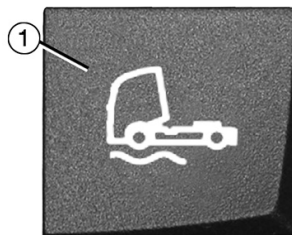
- move control (1) to A to increase the speed progressively or press on A on control (1) to increase the speed in increments;
- move control (1) to B to decrease the speed progressively or press on B on control (1) to decrease the speed in increments;

Control (2) will return it to 900 rpm.



Deactivating the function

Press control (1); the gearbox stays in manual mode; you then have to select automatic mode.



Engine stop

To avoid any damage or risk of accidents, please follow the engine stopping sequence as described here.

Apply the parking brake and make sure that the gearbox is in neutral. Always wait for the engine to return to idling speed before switching off.

Press the STOP/START button to stop the engine. The vehicle switches to Living Mode when the engine is stopped and the ignition is switched off.

Set the vehicle into low consumption mode using the remote control.

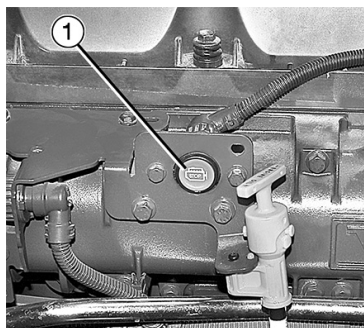
If the tachograph printer drawer is open when the ignition is switched off, the buzzer sounds, warning (1) is displayed and message (2) "printer open" is displayed. Close the tachograph printer drawer again.



When the engine is stopped, an AdBlue circuit drain cycle is performed automatically.

During this operation, the pump can be heard operating.

Engine stop control (1) (cab tilted).





External equipment - control/
management

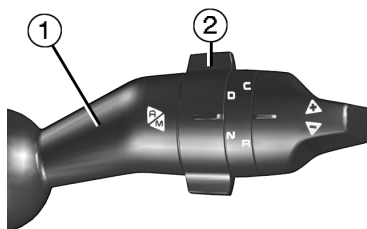
Power take-off(s)

The power take-off is usually a hydraulic pump driven by the engine or gearbox. The power take-off is mounted on the engine, the flywheel or the gearbox. A power take-off connected to the flywheel or engine is called a clutch-independent power take-off. The body builder adapts normal control of the power take-off for your particular equipment.

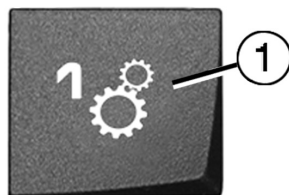
There are two possible applications (when stationary and when driving).

Use when stationary

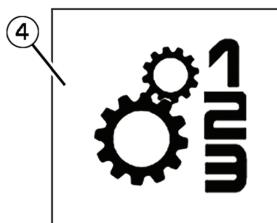
- Engine speed < 1000 rpm.
- Ring (2) on selector (1) set to "N" (gearbox in neutral).
- Parking brake applied.



Press control (1).

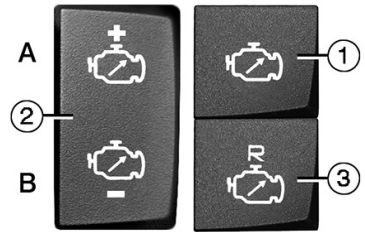


Indicator pictogram (4) remains displayed once the PTO is activated.



Once the power take-off is engaged, adjust the engine speed:

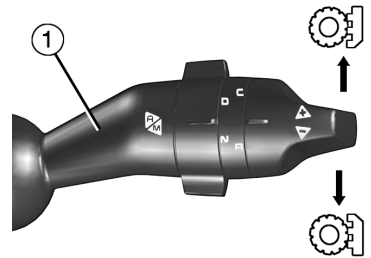
- press control (1);
- adjust the speed using control (2).



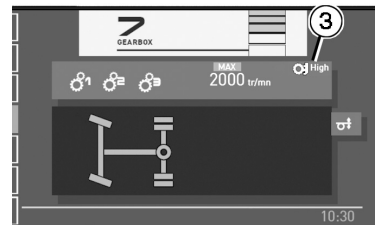
Two operating speeds for the power take-off

When stationary, select "min" or "max" speed via gear control selector (1):

- parallel to the steering wheel, move the selector forwards (+): "max" speed,
- parallel to the steering wheel, move the selector rearwards (-): "min" speed.



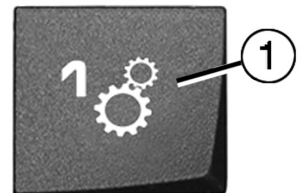
- The power take-off is engaged, indicator pictogram (3) appears on the information display.



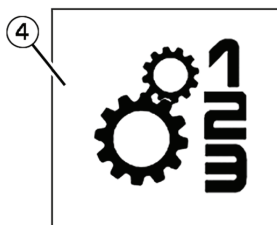
Use when driving

If engaging it while in motion, in addition to the activation conditions above, no gearbox-mounted PTO should be engaged.

Press control (1).

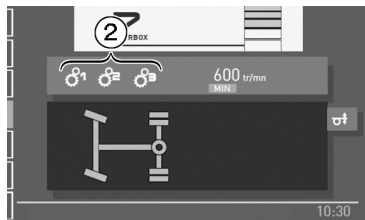


Indicator pictogram (4) remains displayed once the PTO has been actuated.



Pictograms (2) indicate which PTO(s) are activated.

With the vehicle stationary, select a gear ratio appropriate for use (only the first 6 gears are possible).



The rotational speed of the power take-off depends on the gear engaged.

Gears 1, 3, or 5: power take-off minimum speed.

Gears 2, 4, or 6: power take-off maximum speed.

- Depress the accelerator pedal to start the vehicle: the power take-off begins to rotate.



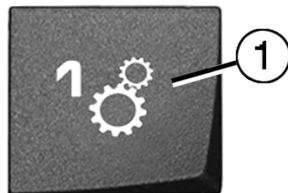
It is not possible to shift gear.



When using a power take-off while driving, the cruise control function will be deactivated for safety reasons. The accelerator pedal can be used to alter the engine speed.

Power take-off disengagement

The power take-off is disengaged by holding down switch (1) for longer than 0.5 seconds.



Some conditions for power take-off engagement/disengagement and engine speed regulation can be accessed using the RENAULT TRUCKS body builder software.

Power take-off speed of rotation

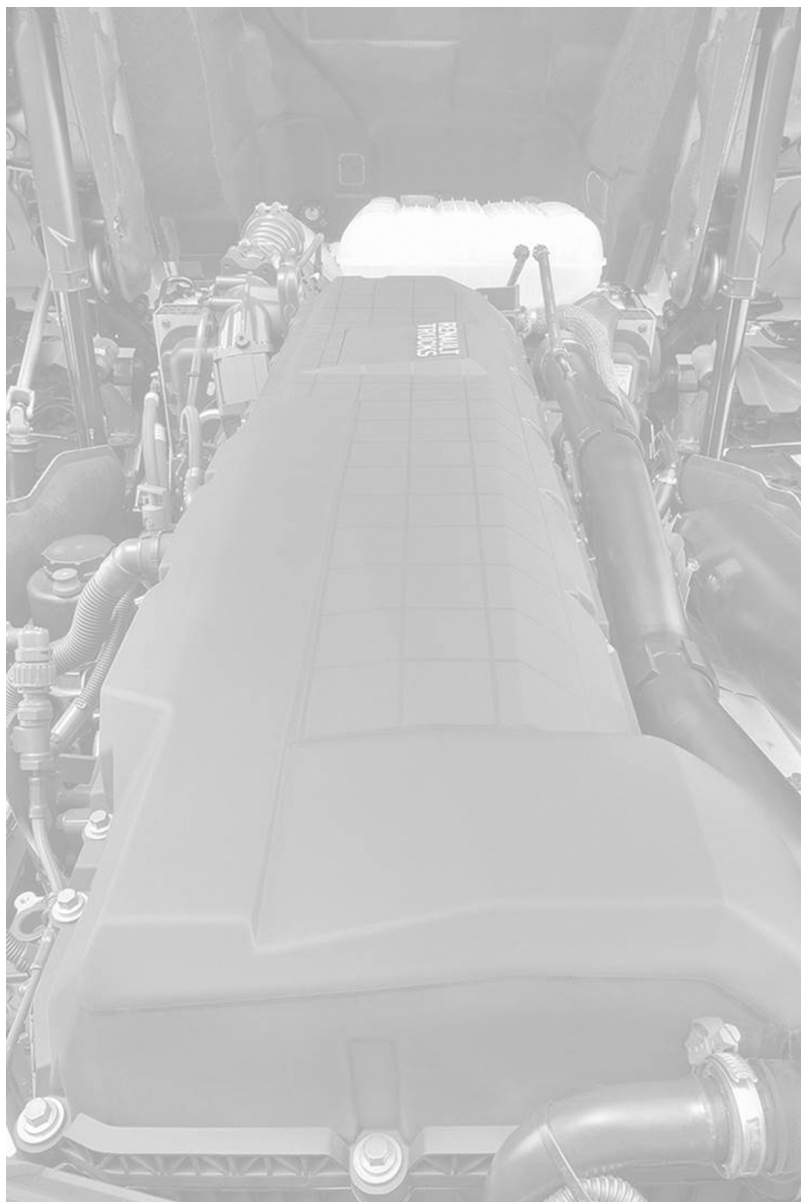
For an engine speed of 1000 rpm.

Splitter set to low range (minimum power take-off speed): gearbox neutral, 1st, 3rd or 5th gear.

- S81: 705 / 880 rpm.
- S84: 910 / 1140 rpm.
- PTRD-D1D: 600 / 760 rpm.

Splitter set to high range (maximum power take-off speed): gearbox neutral, 2nd, 4th or 6th gear.

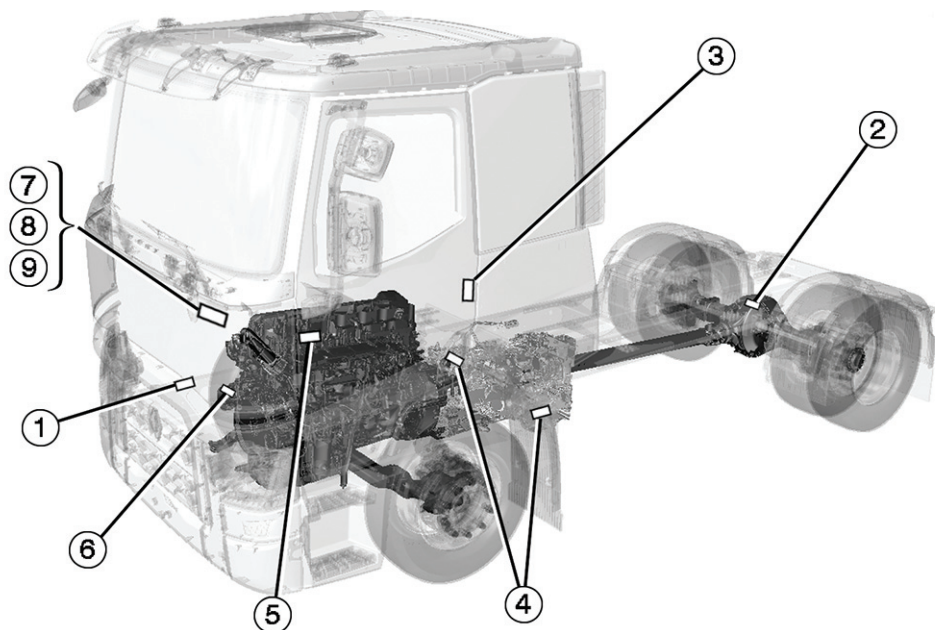
- S81: 897 / 1100 rpm.
- S84: 1159 / 1420 rpm.
- PTRD-D1D: 770 / 950 rpm.



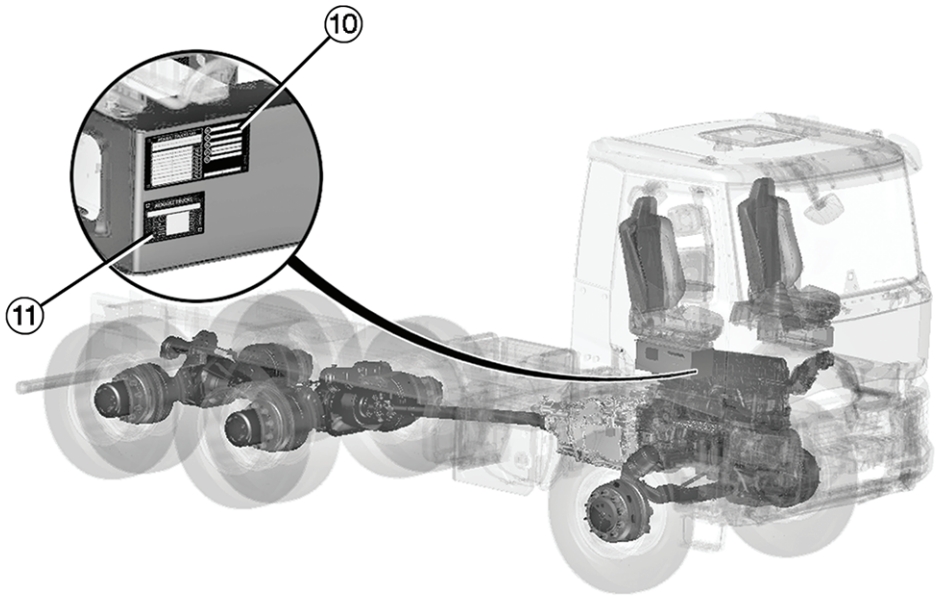
Servicing and maintenance

Vehicle identification

Identification plates are attached to the main parts of your vehicle.



- (1) - Chassis
- (2) - Drive axle
- (3) - Tachograph plate
- (4) - Gearbox
- (5) - Engine
- (6) - Axle
- (7) - CAM reference
- (8) - Paint code
- (9) - Manufacturing number



- (10) - Manufacturer's plate
Pollution index
Headlamp wash label
- (11) - Conformity plate
RTMD-ADR plate

Bulbs

If replacing a bulb, always replace it with a bulb of the same rating and type.

Table of bulbs

Assignment	Power
Main beam headlights	70W
Outline lights	5W
Stairwell lighting	5W
Cab overhead lights	15W
Front direction indicator lights	21W
Front parking lights	5W
Daytime running lights	21W
Halogen low beam headlamp	70W

Replacement of bulbs

Sometimes, it is necessary to replace a bulb to make sure that you can see and be seen on the road. When working with lamps, be careful to avoid any risk of injury, and to preserve the material quality.

Always replace a bulb with an identical bulb.

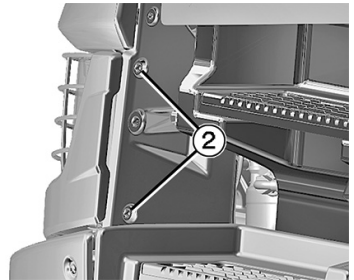
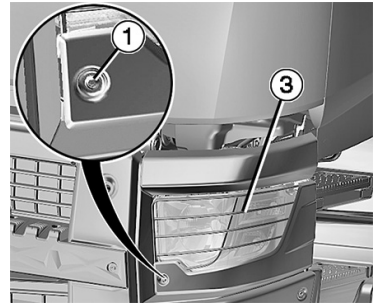
Your vehicle is fitted with LED lighting. The lifespan of this type of bulb should mean you don't run the risk of them not working but if a bulb does fail, please go to your nearest Renault Trucks garage.

Changing a bulb

Headlights

To access the bulbs, unscrew screws (1) and (2) using the wrench provided in the tool kit.

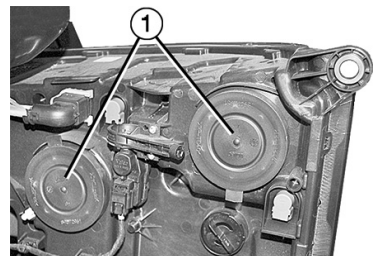
Remove headlight unit protective grille (3).



Pivot the headlight unit assembly.

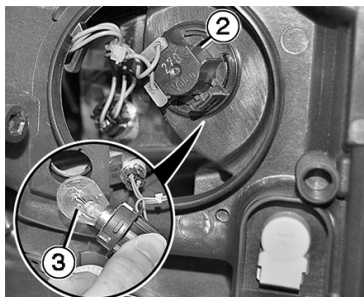


Remove rubber blanking plugs (1).



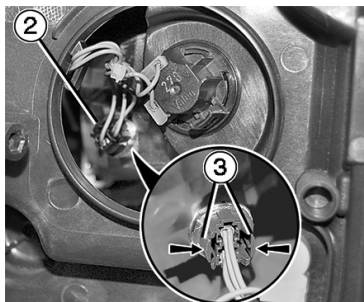
Daytime running lights

Turn socket (2) anticlockwise as far as abutment.
Replace bulb (3).

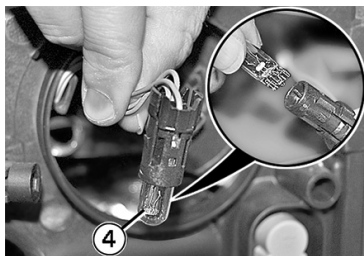


Front parking lights

Press on the 2 tabs (3) and pull out socket (2).



Replace bulb (4).



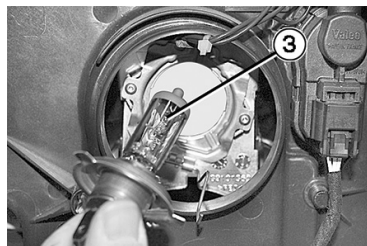
Dipped and main beam headlights

Unplug the connector (1).

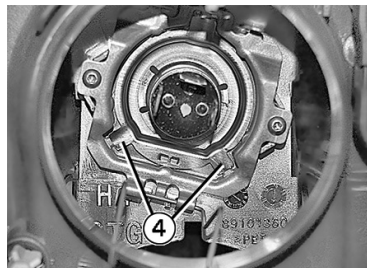
Disconnect clip (2) securing the bulb.



Replace bulb (3).



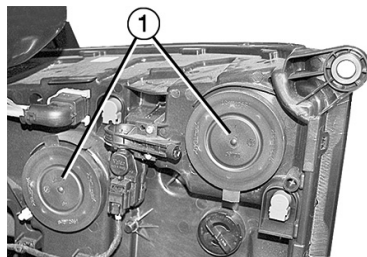
Position the bulb, check that lugs (4) are positioned correctly in their locations.



Replace the rubber blanking plugs (1).



When replacing a bulb, carefully replace the rubber or plastic blanking plug to ensure a perfect seal of the headlamp unit.

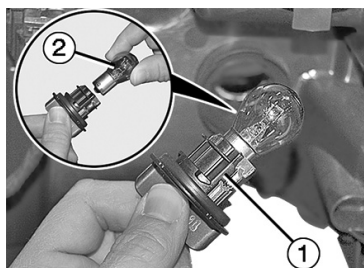
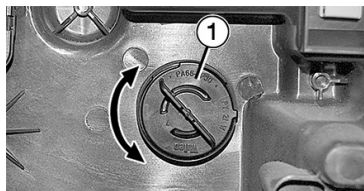


Front direction indicator lights

Turn by $\frac{1}{4}$ of a turn and extract socket (1).

Replace bulb (2).

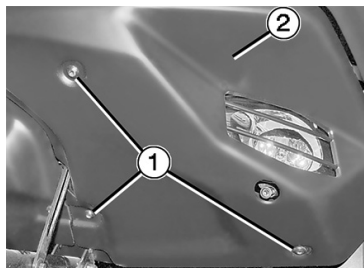
Close the headlamp unit assembly.



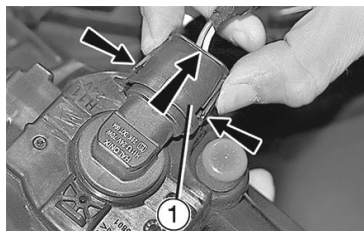
Replacement of fog driving lamp bulbs

Remove screws (1).

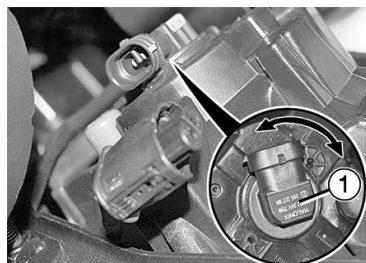
Remove protective panel (2).



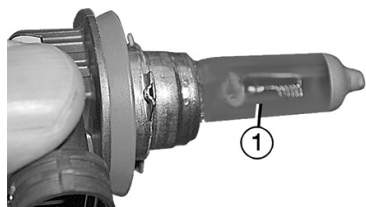
Grip and pull out the connector (1).



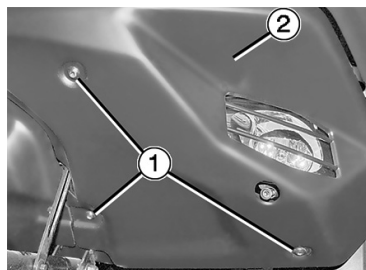
Turn socket (1) anticlockwise as far as abutment.



Replace bulb (1).



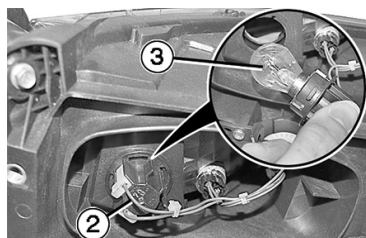
Refit protective panel (2).



Daytime running lights

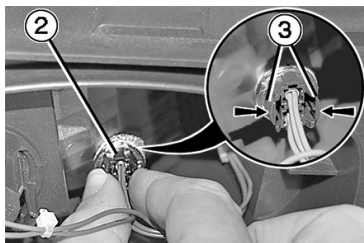
Turn socket (2) anticlockwise as far as abutment.

Replace bulb (3).

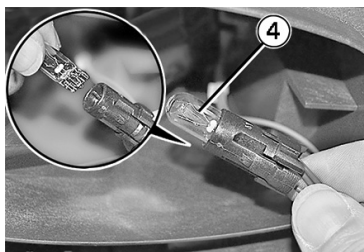


Front parking lights

Press on the 2 tabs (3) and pull out socket (2).

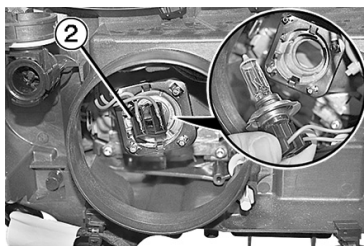


Replace bulb (4).

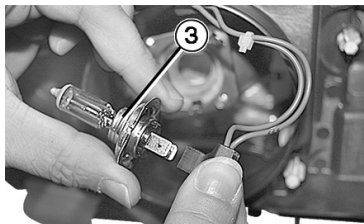


Dipped beam headlights

Pull on socket (2) to release the bulb from the retaining springs.



Unplug the connector and replace bulb (3).



Place the bulb in position, check that lug (4) is correctly positioned in its location.



Halogen bulbs



When installing these bulbs, it is recommended to hold them by their metal end. If they must be held by the glass section, use a cloth or clean paper. The lightest fingerprint or trace of grease could render the bulb unusable when the light is switched on. Before installation, you can clean the bulb using rubbing alcohol if you are not certain that it is clean. Before removing a bulb, leave it to cool for a few minutes if it has been lit, otherwise there is a risk of serious burns.

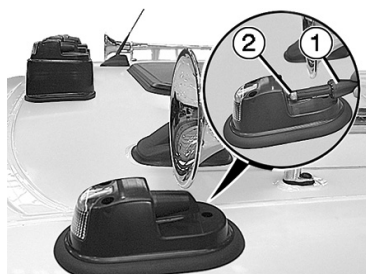


Replacement of bulbs on roof end-outline marker lamps

Turn bulb-holder through 1/4 of a turn and remove (1).

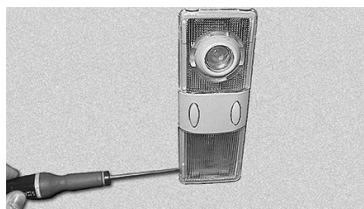
Replace bulb (2).

Install bulb holder (1).



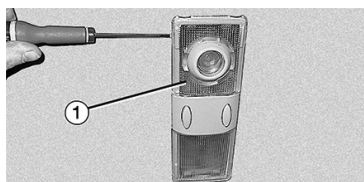
Replacing an overhead light bulb

Unclip the cover glass concerned using a flat screwdriver to access the bulb.



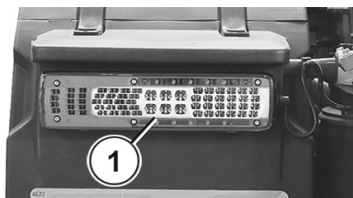
Replacing a reading lamp bulb

Unclip cover glass (1) using a flat screwdriver to access the bulb.



LED rear lights

In the event of a fault on rear LED lights (1), visit a RENAULT TRUCKS garage.



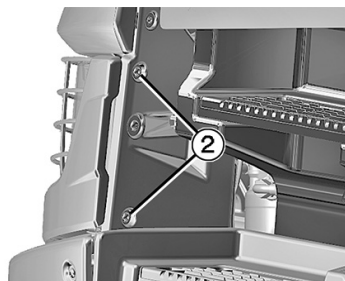
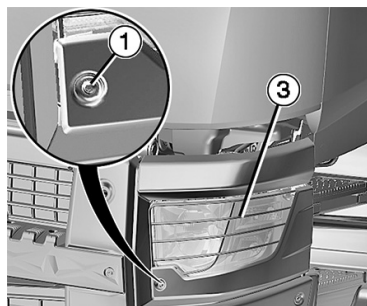
Use the dipped beam headlights in accordance with the applicable highway code

When you drive in a country where traffic drives on the opposite side of the road compared to your country, your asymmetric dipped beam lights can dazzle drivers coming towards you.

In order to avoid this, the headlamp is fitted with a system for modifying the light beam emitted.

To access the bulbs, unscrew screws (1) and (2) using the wrench provided in the tool kit.

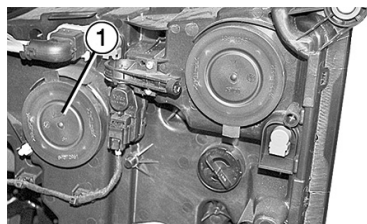
Remove headlight unit protective grille (3).



Pivot the headlight unit assembly.



Remove blanking piece (1).

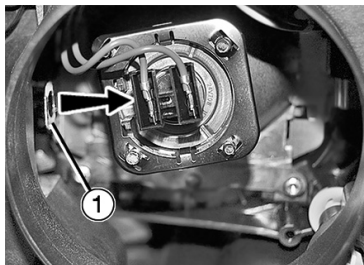


Move lever (1) towards the bulb and manipulate it in order to modify the light beam emitted.



There is a risk of burns when working on a headlamp that has just been in operation.

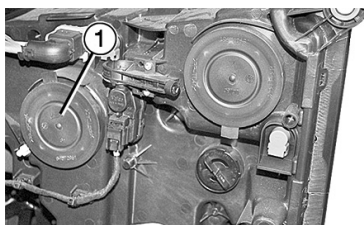
Use suitable protective equipment.



Do not forget to move lever (1) back to its original position when you leave the country.



When carrying out work on the headlamp which required removal of blanking piece (1), refit it carefully to ensure that the headlamp unit is sealed perfectly.



It is strictly prohibited to apply adhesive tape to the headlamp as this could quickly become damaged under the effects of heat.

Fuses

The truck's fuses are designed to protect the electrical system circuits against surges and only generally trip after a short-circuit. Consequently, if a fuse has blown, you should always let an official workshop determine the cause.

In the event of an anomaly on a fuse, warning pictogram (1) and information messages (2) relating to the defective fuse are displayed.

Replace the fuse.

If the anomaly persists, contact a RENAULT TRUCKS garage.

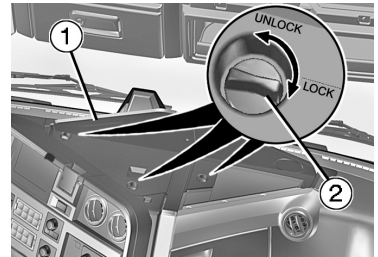
Always replace a fuse with another fuse of the same rating.



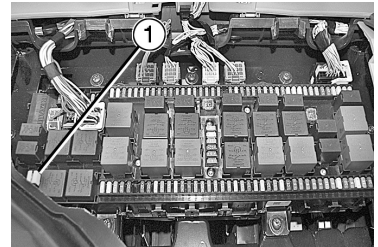
To gain access to the fuses:

- remove mat (1) from the dashboard;
- turn the 3 locks (2) through 1/4 of a turn;
- remove the cover.

After the operation, refit the cover and turn the 3 locks (2) through 1/4 of a turn.



Replace the fuses using fuse grip (1).



[illegible]

Assignment	(F) Marks	amps
12 V sockets	F01	10
Not used	F02	
Television power supply pre-arrangement	F03	10
Trailer socket	F04	15
Bodybuilder pre-arrangements on chassis	F05	15
Power supply to switches for bodybuilders	F06	5
Bodybuilder connection unit	F07	30
Bodybuilder connection unit	F08	20
Not used	F09	
24V socket on overhead ledge	F10	15
Remote lights pre-arrangement	F11	15
Rotating beacons	F12	15
Heated seat	F13	10
Hours counter	F13	10
Alco lock (breathalyser)	F13	10
Not used	F14	
Roof customization lights pre-arrangement	F15	10
Roof customization lights pre-arrangement	F16	10
Not used	F17	
Heating management ECU	F18	3
Bodybuilder unit power supply	F19	15
Passenger side door module (door, window lift, and rear-view mirror control)	F20	20
Secondary screen	F21	3
Sun blinds	F22	5

Day-to-day maintenance

Assignment	(F) Marks	amps
Tachograph	F23	3
Information display	F24	3
Motorway toll box power supply	F25	3
Not used	F26	
Vehicle management ECU	F27	10
Vehicle management ECU	F28	20
RH rear-view mirror de-icing	F29	10
LH rear-view mirror de-icing	F30	10
Driving assistance ECU	F31	5
Air production management	F32	10
Not used	F33	3
Working spotlight	F34	5
Not used	F35	
Not used	F36	
"EBS" ECU	F37	20
Air conditioning and parking heater control plate	F38	20
Fuel heating sheath	F39	20
Tachograph	F40	3
Engine management ECU	F41	15
Engine management ECU	F42	15
Fuel filter heater	F43	10
Engine management ECU	F44	10
Cab tilting	F45	30
Trailer "ABS/EBS" socket	F46	20
Not used	F47	

Assignment	(F) Marks	amps
Not used	F48	
Microwave oven pre-arrangement	F49	50
Coffee maker pre-arrangement	F50	30
Windscreen wiper motor	F51	20
Roof hatch	F52	15
Accessories (reversing camera)	F53	5
Not used	F54	
Alarm	F55	3
Main bodybuilder power supply in overhead ledge	F56	10
Interior cab lighting	F57	10
Bodybuilder pre-arrangements (tailgate or crane)	F58	20
24V/12V step-down transformer in overhead ledge	F59	15
24V/12V step-down transformer in dashboard	F60	15
Driver's side door module (door, window lift, and rear-view mirror control)	F61	20
Diagnostic socket (OBD)	F62	5
Cab management ECU	F63	10
24V socket on dashboard	F64	15
Bunk 24V socket	F65	15
Onboard management	F66	3
Cigarette lighter	F67	15
Vehicle management ECU	F68	15
Parking heater	F69	15
Power supply to robotised gearbox ECU	F70	15
Headlamp washer pump	F71	15

Assignment	(F) Marks	amps
Not used	F72	
Bodybuilder connection unit	F73	30
Bodybuilder connection unit	F74	20
Refrigerator pre-arrangement	F75	10
Trailer interior lighting	F76	15
Not used	F77	
Not used	F78	
Not used	F79	
Bunk remote control unit	F80	3
Not used	F81	5
Not used	F82	
Not used	F83	
Not used	F84	
Onboard management	F85	3
Not used	F86	
Not used	F87	
Alco lock (breathalyser)	F88	5
Not used	F89	
Not used	F90	15
Onboard management	F91	10
Replacement fuse	F92	50
Replacement fuse	F93	30
Replacement fuse	F94	20
Replacement fuse	F95	15
Replacement fuse	F96	10

Assignment	(F) Marks	amps
Replacement fuse	F97	5
Replacement fuse	F98	3

Windscreen wiper blades

The windscreen wipers contribute to good road visibility and therefore to your safety. Make sure that they are always in tip top condition.

Replacing a windscreen wiper blade

Lift the windscreen wiper arm.

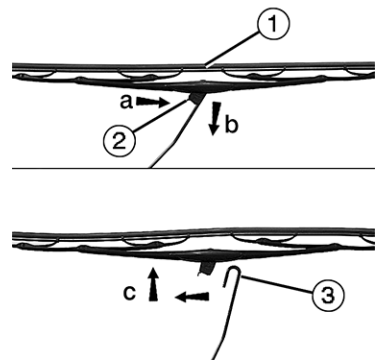
Tilt blade (1) until horizontal.

a - Pull on tab (2).

b - Pull blade (1).

c - Release hook (3).

To install, proceed in the reverse order to removal and ensure that tab (2) is secured.



Warranty

The maintenance instructions contain information on the preventive operations that the driver should perform to keep a vehicle reliable and safe.

However, the servicing described in these instructions does not cover everything.

Numerous points are included in the services provided by the RENAULT TRUCKS garages.

When purchasing a vehicle, a service programme is set up. The programme is based in particular on the type of wagon and its use in transport applications, the driving conditions, oil grades, environment and legislation in force in each country.

These are all unique factors for each vehicle. Therefore, we recommend that you contact the RENAULT TRUCKS network to optimise maintenance.

If the initial conditions necessary for setting up the servicing programme are modified, the programme should be corrected. Contact your RENAULT TRUCKS garage.

Servicing is the prime guarantee

The tougher the operating conditions, the shorter the service and inspection intervals. In some cases, it is necessary to take account of hours of operation rather than mileage. The manufacturer cannot be held liable for incidents resulting from driving errors or failure to observe the instructions contained in this handbook, particularly if lubricants not meeting the performance level required are used for lubrication.

For all maintenance operations, consult a RENAULT TRUCKS garage.

Topping up engine oil



Top up the engine oil with RENAULT TRUCKS OIL RLD-3 grade oil until the first engine oil change is reached. Subsequently, the choice of oil to be used is defined by the customer depending on the use of the vehicle.

The implementation of these operations is essential for the validity of the vehicle warranty.

To benefit from this, consult a RENAULT TRUCKS garage and give them the warranty certificate you received when the vehicle was delivered.

Lubrication

The manufacturer defines the lubricant performance level necessary for the smooth functioning of the vehicles he manufactures. The manufacturer also defines the frequency of the lubrication operations.

These recommendations must be strictly followed.

Observing them will increase the service life of the equipment and components. Failure to comply can invalidate the warranty offered.



Draining major units: always drain oil on level ground, with the oil hot to aid the flow.

When refitting drain plugs, fit new seals.

Checking the oil levels (all components).

Oil levels must always be checked in identical conditions (vehicle unladen or laden), on flat ground, and at least 5 minutes after the vehicle has stopped.



Engine oil level: *for a more accurate reading, the engine oil level should be checked when the engine is cold, after a prolonged shut-down (2 hours minimum), in the morning, prior to start-up, for example; otherwise, check the oil level with the dipstick.*

- *Vehicle with mechanical suspension: check the level with the vehicle unladen.*

Vehicle road tests

After the warranty inspection, the vehicle manufacturer should make sure that the user clearly understands all the operating instructions in the handbook.

Fuel

Diesel

The quality of fuel is important for the technical and environmental performances of the vehicle.

Poor quality fuel will affect the durability of the engine and may result in the vehicle not meeting engine emissions control standards.

Fuel quality is very important for vehicles equipped with particulate filters (EATS) and the exhaust gas recirculation system (EGR), it is therefore important to use a fuel that complies with national and international standards.

The European EN 590 standard must be complied with, it comprises the legal requirements for fuel stipulated in directive 98/70/EC and for EU fuels (2009/30/EC edit.).

European standard EN 590 requires that national standardisation bodies (AFNOR for France, DIN for Germany, BSI for the UK, etc.) define the viscosity classifications, in accordance with national climatic and seasonal demands.

When adopted nationally, the standards are designated NF-EN 590 (France), DIN-EN590 (Germany), BS-EN590 (United Kingdom), SS-590 (Sweden), etc.

Sulphur content

For diesel engines, sulphur in the fuel contributes to the formation of particulate matter. This is damaging to vehicles equipped with diesel particulate filters (EATS) and exhaust

gas recirculation systems (EGR). It is therefore necessary to use a sulphur-free diesel fuel (< 10 ppm).



Use only diesel fuel compliant with the EN 590 standard for motor vehicles.

National regulations authorise oil companies to add a certain proportion of biodiesel to diesel fuel (fossil diesel).

Adding biodiesel to commercial diesel will increase pollutant emissions and engine wear.

If diesel fuel is stored locally in tanks, it must be filtered to ensure that it is free from any contaminants before filling the vehicle tank(s). If water is present in the diesel fuel, do not use it.

It is strictly forbidden to use AquaZole.

For specific cases, contact a RENAULT TRUCKS garage.

Biodiesel

Biodiesel (VOME, Vegetable Oil Methyl Ester complying with the EN 14214 standard) is widely used as an additive in diesel fuels.

VOME has characteristics which make it less suitable as a fuel due to its hydrocarbon components: less stability, poorer properties at low temperatures and a higher propensity to trap water and bacteria.

The EN 590 standard authorises a maximum content of 7% VOME in fuel.



Some engine variants allow a maximum content of 30% VOME in the fuel; for further information contact a RENAULT TRUCKS garage.

For Euro 6 vehicles, use only fuel compliant with the EN 590 standard (7% VOME maximum).

Diesel fuel antifreeze protection and additive

Use in cold weather

In order to be suitable for various weather and seasonal conditions, the EN 590 standard defines a certain number of "climatic classes" which must be selected on a national scale.

There are different grades of diesel available commercially, used seasonally (winter or summer). The filtration limit temperature "**FLT**" varies depending on the type of diesel fuel used. At temperatures approaching the filtration limit temperature, paraffin crystals are formed in the diesel which clog the fuel supply circuit.

Several winter grades may be chosen, if required, to protect vehicles in all regions throughout the winter season.

The **"CFPP"** classes selected must be suitable for the lowest ambient temperature in a country or region.

Examples of classification by country:

- France: For protection down to -15°C: use diesel category **"E"**.
- Germany: For protection down to -20°C: use diesel category **"F"**.
- United Kingdom: For protection down to -15°C: use diesel category **"E"**.
- Finland: For protection down to - 26/- 32/- 44°C: use diesel category **"ARTIC"** 1/2/4.

Oil companies are still responsible for adapting the **"TLF"** of their fuels to the market.

In exceptional circumstances (extremely low temperatures), a maximum of 20% kerosene may be added to diesel fuel to improve its cold properties.

The kerosene used must be sulphur-free (< 10 ppm).

20 % kerosene lowers the **"FLT"** by 5°C.



Adding petrol or alcohols (methanol, ethanol) is forbidden.

Additives

Modern diesel fuels contain powerful additives added by the oil companies.

Oil companies are still responsible for the quality of the fuels they sell (with or without additives).



They are not authorised to add other additives to the fuel separately.

The use of VOME (Vegetable Oil Methyl Ester compliant with the EN 14214 standard) tends to trap water and risks an increase in bacteria and fungus.

Antibacterial additives may not be added by oil companies during fuel production.

These additives must be added to the tanks of vehicles with bacterial problems.

If it is deemed necessary to treat a vehicle with an antibacterial additive, contact a RENAULT TRUCKS garage.

AdBlue



Use only commercially-available AdBlue motor vehicles (Standard DIN 70070).

Maintenance recommendations



When handling AdBlue, use only type-approved containers and pumps that are clean and used only for this purpose.



Do not reuse AdBlue that has been drained from a tank.



It is forbidden to replace AdBlue by any other product or add any other product to it or else vehicle pollution control will no longer be achieved and you will run the risk of damaging the post-treatment system.



If you note that the AdBlue you are using for your vehicle is contaminated, in no event should you start your vehicle; contact a RENAULT TRUCKS garage.



AdBlue must always be handled with care; it is a corrosive agent.

AdBlue must never come into contact with other chemical products.

If it is spilled on the vehicle or if there is a leak, wipe off the excess with a cloth and rinse with water.



If working on AdBlue system components, protect the electrical connectors and disconnected hoses from any AdBlue spillages using the plug kit available from the Parts store.

In case of AdBlue splashes:

- *on a connector in situ, rinse with water;*
- *on a disconnected connector, replace the connector.*



STOP

IF ANY ADBLUE IS SPLASHED ONTO THE SKIN OR INTO THE EYES, RINSE THOROUGHLY WITH WATER.

IN CASE OF INHALATION, BREATHE FRESH AIR.

CONSULT A DOCTOR IF NECESSARY.

Exhaust gases, Euro VI engines

The exhaust gas treatment catalytic converter heats up and cools down more quickly than a conventional silencer.

This leads to the following consequences:

- The exhaust gases become very hot when driving and when parked with the engine running.



Do not park on flammable materials such as, for example, oil, diesel, dry grass, etc.

- Exhaust gases have a different odour to the exhaust gases of an engine without a catalytic converter. The difference is more noticeable when the engine is cold.
- When starting in low temperatures (up to 5°C), a cloud of white smoke comprising water vapour may appear. This occurs more often on engines without an exhaust gas after-treatment system. Water vapour may also be produced after short stops, but is less noticeable.



Consider that this can, in exceptional cases, inconvenience other road users!



When in operation, the catalytic converter reaches a very high temperature. Wait for approximately 2 hours before carrying out any work on the catalytic converter to allow the temperature to drop to an acceptable level of 50°C.

Risk of burns for operators.

APM

Checking the operation of the air filter.

If the air system warning "high air consumption" message appears on the multifunction display, check that there is no water in the air tanks.

If there is water present in the air tanks, the system should be checked.

Contact a RENAULT TRUCKS garage.

Maintenance schedule recommendations

Following the maintenance recommendations and the quality of the consumables and spare parts to be used for preventive maintenance is extremely important to make sure that your vehicle is working properly and reliably.

If in doubt, contact your Renault Trucks service point.

Lubricants

RENAULT TRUCKS recommends the use of **ECO 5** lubricants (used as original equipment) to obtain saving in terms of fuel economy.

These recommendations meet the requirements of RENAULT TRUCKS to ensure the reliability expected by its customers.

These recommendations cannot be the subject of "**compromise or negotiation**": they are linked to the technical definition of the engines.

Non-compliance with the manufacturer's recommendations in terms of oil change intervals or the use of unsuitable lubricants will considerably reduce the operational safety factor of an engine and can cause serious incidents in the long term.

If such incidents were to occur, RENAULT TRUCKS would not accept the costs of repairing these engines, even for vehicles under warranty.

Adapt the viscosity of the oil used according to the climate conditions of the region where you use your vehicle.

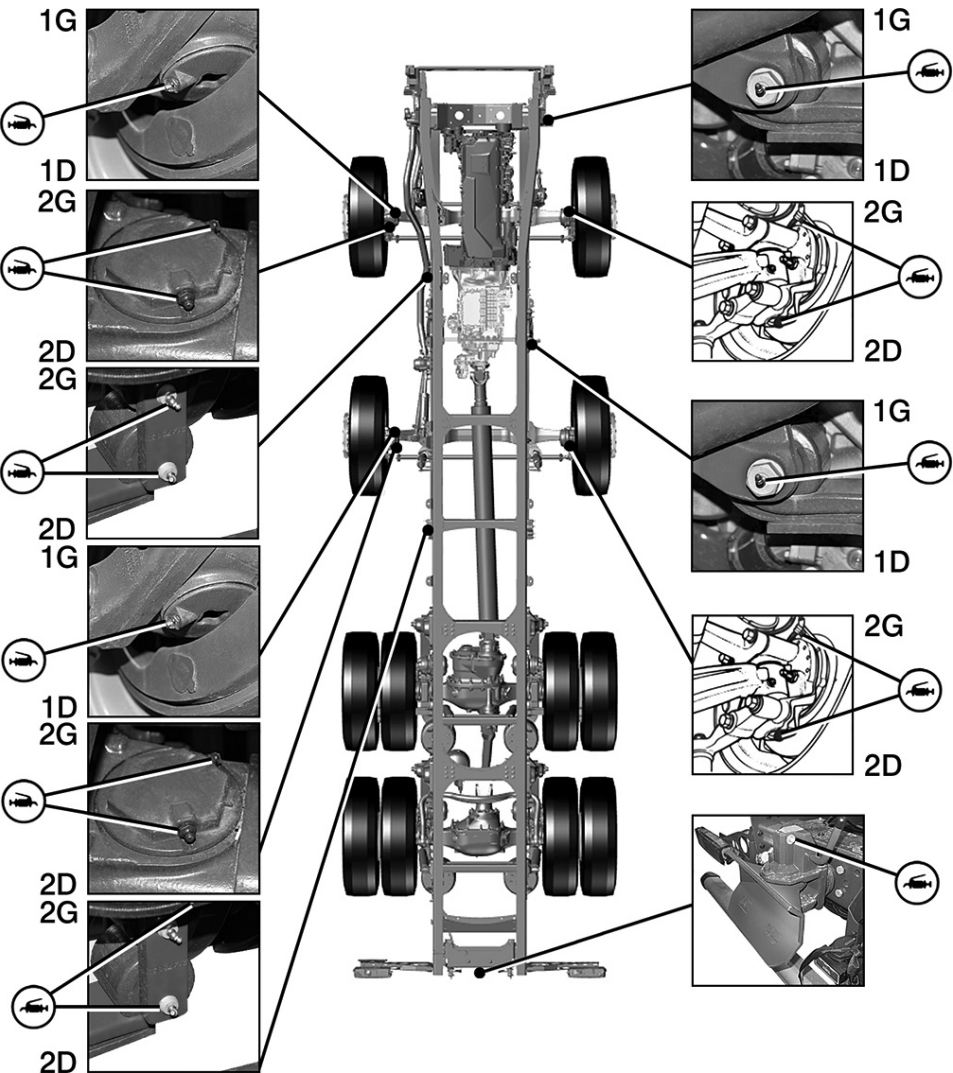
Using an oil of a lower grade will require more frequent oil changes. Your RENAULT TRUCKS garage is at your disposal to advise you.

We recommend RENAULT TRUCKS Oils.

Engine oil filter cartridge(s)

For the correct operation of your engine and to extend its service life, use only genuine filters with a filtration surface and threshold designed by the manufacturer.

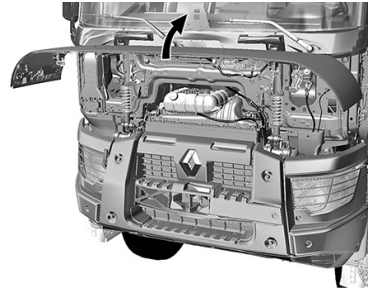
Lubrication diagram(s)



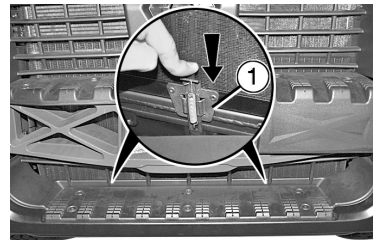
Radiator insect screen

Removal

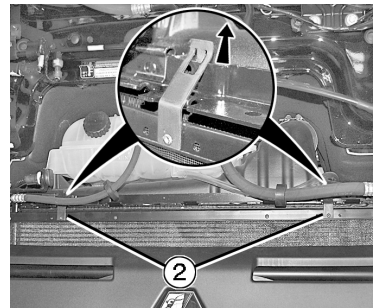
Open the bonnet.



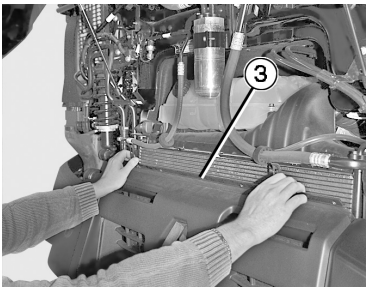
Press on mountings (1) to unlock the bottom of the insect screen.



Unhook mountings (2) at the top of the insect screen.



Remove insect screen (3).



Cleaning:

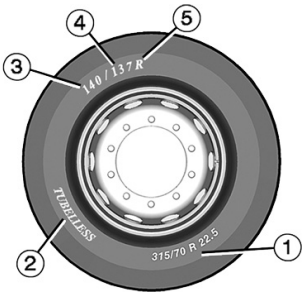
At the onset of spring and summer, clean insect screen (3) by blowing through compressed air, or with warm water. Avoid high-pressure jets.

Assembly:

Ensure the insect screen is attached correctly when assembling. Close the bonnet.

Tyre specifications

- 1. Type of tyre
- 2. "Tubeless": no tube
- 3. Load rating: single wheel fitment
- 4. Load rating: twin wheel fitment
- 5. Symbol for tyre's maximum speed



Speed ratings

The following table may be used to find the speed rating symbol applicable to replacement tyres.

Vehicle speed	Symbol
≤ 80 km/h	F
80 - 90 km/h	G

Vehicle speed	Symbol
90 - 100 km/h	J
100 - 110 km/h	K
110 - 120 km/h	L
120 - 130 km/h	M



It is prohibited to install tyres with a speed rating lower than that of the tyres fitted as original equipment on the vehicle or those recommended by the manufacturer. However, it is indeed possible to install tyres with a higher speed rating.



For any modification to tyre type, it is essential to reconfigure the braking system. Contact your nearest RENAULT TRUCKS garage.

Have the tachograph calibrated by an approved S.I.M. workshop.

Tightening the wheels

Tightening order

- Disc wheel rims

Use a 33 mm socket.

Step 1

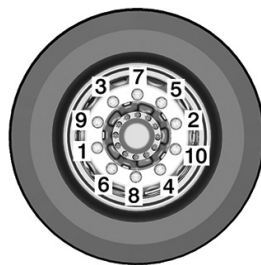
Pre-tighten the wheel nuts to 300^{±50} Nm

Step 2

Tighten the wheel nuts to 650^{±75} Nm

Inspection/Checks

Wheel tightening control torque value: minimum 670^{±30} Nm.





Check the tightness of the wheel mounting nuts each time after refitting: after 20 to 30 km then between 150 and 250 km.

Check the tightness of the wheel mounting nuts every 6 months, whether the wheels have been removed or not.

If, when checking, it emerges that a nut is not tightened to the minimum torque of 670^{+30} Nm, loosen all of the wheel mounting nuts and retighten to the recommended torque.

If these basic precautions are not heeded, there is a risk of the mounting nuts loosening and serious consequences may result.

Load and pressure rating of tyres



Your vehicle is equipped with specific tyres. When changing fitment, ensure that the new fitment is compatible with your vehicle by contacting your RENAULT TRUCKS garage.

Rims equipped with protective valve: when removing/installing a tyre, follow the manufacturer's instructions. Make the operative aware of this.

List of load ratings



Whenever replacing tyres, ensure that the new tyre fitment has a load index that can support the maximum axle load of your vehicle.

Size of tyre	Load rating Single / Twin	Load in kg single wheel	Load in kg twin wheel
13.00 R	156 / 150	7,500	13,400
22.5	158 / 156	8,000 8,500	16,000

Inflation pressures



Follow the tyre manufacturer's recommendations. If none are available, use the following indicative pressures temporarily. For chassis intended to be equipped with equipment likely to alter the load per axle, refer to the manufacturer's data with relation to type, brand and application. Observe the load/speed ratings written on the tyre wall.

Tyre dimension	Load in kg according to fitment		Pressure in bar
	Single	Twin	
13 R 22.5	6,210	11,100	6.5
	6,640	11,870	7.0
	7,070	12,630	7.5
	7,500	13,400	8.0
	8,000	13,400	8.0**

Helping Hand

Wheels/Tyres

Changing wheels

Precautions to take when fitting wheels to the vehicle:

Before fitting

Clean the wheel rims and hubs very carefully, in particular the contact surfaces (grease, earth, mud, metal swarf, overspray, etc.).

When installing

Oil the shafts and nuts lightly (engine oil). Tighten the nuts progressively using the tool provided with the vehicle. Pull on the arm of the tool to tighten correctly.



Over-tightening could result in damage. In order to avoid exceeding the tightening torque, do not use articles such as: pipes, extension bars, etc.

After installation

Check the tightness of the mounting nuts each time after refitting: after 20 to 30 km then between 150 and 250 km.

If these basic precautions are not heeded, there is a risk of the mounting nuts loosening and serious consequences may result.

Main causes of premature wear of tyres

- driving behaviour (excessive braking, driving over pot holes, etc.);

- vehicle overloading or incorrect distribution of load;
- over-inflation or under-inflation (inflate to the correct pressure for the weight per axle);
- incorrect twin fitment (always twin tyres of the same dimension, same type and same degree of wear);
- incorrect adjustment of the front axle geometry.

Inflation pressure test

Frequency

The tyre pressures must be checked on each refuelling or every 14 days.

Method

Tyre pressures should always be checked on cold tyres.

You must never deflate hot tyres.

Safety

In-service incidents.

Whenever an impact occurs, or whenever you cannot stop quickly following a tyre puncture, it is essential to have the tyre checked promptly by a specialist.



Over-inflation or under-inflation has an impact on fuel consumption.

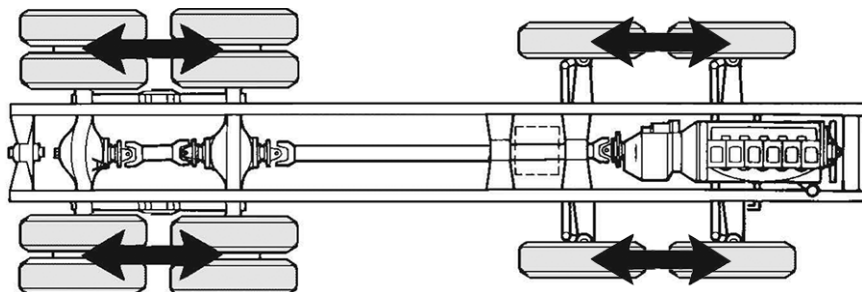


Only use RENAULT TRUCKS nickelled or chromed valves. When replacing a valve, grease the valve hole and the rim inner seat with grease such as "FREYLUBE, ROCOL. MG or ESSO MOBY".



TO ENSURE INCREASED TYRE LIFE ON THE INTERMEDIATE AND REAR AXLES, IT IS RECOMMENDED TO:

- **CHECK REGULARLY FOR WEAR.**
- **SWAP TYRES AROUND WHEN PART-WORN.**
- **IF REPLACING A TYRE, INSTALL THE SAME TYRE TYPE ON BOTH DRIVE AXLES.**



Snow chains

In some countries, the use of snow chains may differ due to the legislation in force. Comply with the legislation in force in each country.

Snow chains must be installed on driven wheels. For certain types of chains, the tension must be rechecked after several tens of metres have been covered.

Do not exceed the maximum speed authorised for driving with snow chains.

As soon as the roadway is clear, remove the snow chains to avoid damaging the tyres and also to regain optimal braking behaviour and roadholding.



*If you encounter traction problems when driving with snow chains, deactivate the wheel anti-spin regulation ("ASR"); refer to the **Driving on difficult terrain** chapter.*



Use only snow chains approved and recommended by RENAULT TRUCKS in order to prevent damage to the vehicle. Contact your RENAULT TRUCKS garage.

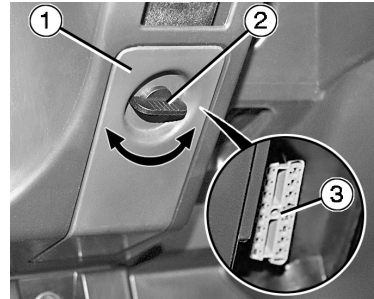
Braking circuit pressure

Check system	Reference pressure	
Compressor/Relief valve	Maximum shut-off pressure: 12.5 bar	Minimum interlock pressure: 11 bar
Four-way protection valve	Static closing pressure: 4.5 bar	
Minimum pressure in the braking circuit for calibration	10 bar	

Diagnostic and Infomax "OBD" socket

"OBD" diagnostic socket (3) is positioned under the switches, to the left of the instrument panel.

To access "OBD" diagnostic socket (3), open cover (1) by turning catch (2) through $\frac{1}{4}$ of a turn.



Battery banks

The batteries are used to start the engine and they supply all the truck's control units and power consumers. The batteries' condition, i.e. their capacity to take charge and provide power, has great importance on whether the truck performs well and is operationally reliable.

Features - maintenance

Checking the charging status

The alternator cannot charge the battery to 100%; in optimal conditions, the battery can be charged up to 90%.

To maintain the batteries' lifespan, they must be charged externally at least once every three weeks, even if they appear to be fully charged.

For systems that use a lot of battery power when the engine is off, such as tailgate lifts, daily external charging is recommended.

- To avoid deep discharges and permanent battery changes, batteries must never be discharged with less than 50% capacity.
- Externally recharge the batteries regularly.
- Use chargers with charge indicators and sufficient charge currents.



Perform an external charge at least once every three weeks to maintain battery lifespan.



The technical specifications of the batteries have been optimised for the production vehicle configuration. The addition of any additional consumers (climate control, light bar, television screens, etc.) requires electrical diagnostics by a Renault Trucks service point.

For this operation, contact a RENAULT TRUCKS garage.



REMEMBER THAT THE ACCUMULATOR BATTERIES CAN DISCHARGE A LOT OF HIGHLY EXPLOSIVE FLAMMABLE GAS. A SHORT-CIRCUIT, A FLAME OR SPARK NEAR TO A BATTERY COULD CAUSE A LARGE EXPLOSION RESULTING IN PERSONAL INJURY OR DAMAGE TO EQUIPMENT.

Keep the batteries and their connectors clean and free from verdigris.

External top-up charge

Top-up charge the batteries using the external top-up charger at least every three weeks in order to maintain long service life.

In cold climates or if the truck has systems that load the batteries excessively when the engine is switched off, the batteries need charging with the external top-up charger more often.



Save fuel by connecting a top-up charger during overnight stays.

Only use an external top-up charger with charging control and sufficiently high charging current.

The rule of thumb is that the external top-up charger must give a charging current that is 10% of the batteries' amperage. For example, if the batteries' amperage is 170 Ah, the charger must give a charging current of 17 A.

Low temperature

The temperature greatly affects the available capacity of the batteries. At low temperatures the batteries ability to deliver power is significantly reduced.

For example, at -18°C the batteries only have 50% of the capacity available, even if the batteries are fully charged.

When driving in cold climates, charge the batteries more often using a top-up charger. The charging works better if the batteries are charged in warmer ambient temperatures, for example in a garage.

Some smart top-up chargers can compensate for the low chargeability at low temperatures by raising the charge voltage. It uses a temperature sensor to adjust the charging voltage but it cannot fully measure the temperature inside the batteries.

Connect charge cables or jumper cables



Oxyhydrogen gas can build up in the batteries, which is highly explosive. A spark is all it takes for the battery to explode and cause serious injury. Sparks can be produced if a cable is removed from or connected to the battery incorrectly.

Do not lean over the batteries.

1. Remove the plastic cover from one of the battery's positive terminals and connect the positive cable.
2. Remove the plastic cover from the other battery's negative terminal and connect the negative cable.



Make sure the earth connection is clean and free from paint.

Remove charge cables

1. Remove the negative cable.
2. Remove the positive cable.

General information on cleaning

General

Regular cleaning maintains the value of your truck. Remember to wash more often in winter conditions or other dirty driving conditions.



Consider the environment.

Use washing facilities that take care of waste from washing in an environmentally sound manner. Use environmentally friendly cleaning agents as far as possible.

Use of high-pressure washing

High-pressure washing is an effective way to clean the truck. However, you should exercise caution when using high-pressure washing, otherwise the truck and its components could be damaged.

Use high-pressure washing with caution. Penetrating water and dirt may cause damage. The damage occurs over time and the connection with washing is not obvious.

Do not rinse:

- Universal joint cross
- Support bearings
- Slip joints
- Joints
- Seals
- Ventilation for gearboxes, oil reservoirs, etc.
- Connectors
- Electrical components
- Air inlets

Tyres and air suspension bellows:

Pulsating high pressure may damage tyres and air suspension bellows. The damage is not visible but may eventually cause tyres or bellows to rupture.

Radiator:

Clean the radiator with extreme caution. The fins are easily damaged by high pressure.

Sound baffles:

The soft sound absorbing panels around the engine and gearbox must be cleaned with great care. The sound absorbing material is easily damaged by high pressure.



Stop the engine and enter the vehicle into low consumption mode or switch off the master switch before washing the vehicle.

Limit the jet washer pressure to a maximum of 80 bar. For the sound-proofing screens, limit the temperature to 80°C and maintain a minimum distance of 80 mm.



When washing the vehicle, carry out general greasing. Specifically, grease the coupling fifth wheel locking mechanism and the trailer hitch locking mechanism.

Front end

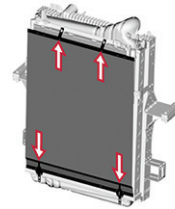
When the bonnet is up, avoid any pressurized water splashes.

Radiator cleaning

During cleaning, the insect net can be removed.



Exercise extreme caution when cleaning so that the cooling plates are not damaged.



Cab washing

The truck should be washed as soon as it becomes dirty, especially during the winter when road salt and dampness can otherwise lead to corrosion.

The following points must be observed in order to avoid paint damage and to achieve good results when washing:

Washing method: Use a pressure washer primarily. For dirt that cannot be removed using this method, try to remove with a brush or sponge and cleaning agent best suited for the type of dirt. You risk scratching the paint using brush-washing without high-pressure washing beforehand or by washing in brush washers that are poorly maintained (worn, dirty brushes, etc.).

Washing chemicals, general: different agents are recommended for different types of dirt. Always follow the manufacturer's recommendations for use, dosage and maximum temperature. Avoid chemicals drying into the paint surface.

Washing detergent: avoid using strong alkaline agents (pH >12). Do not wash the vehicle in direct sunlight. Rinse with plenty of cold water before chemicals are applied if the temperature is above 30 °C. Wash small areas and then rinse clean so that long exposure times or drying chemicals are avoided.

Headlight cleaning

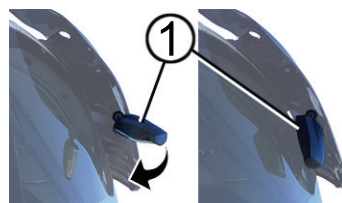
The plastic lenses of the headlamps are made of polycarbonate, and are sensitive to chemicals. For this reason, only clean with soap solution and clean water. Only clean plastic lenses when they are cool. Always use clean sponges and cleaning cloths. Do not use high-pressure washing for washing.

Machine washing

In the event of heavy soiling the truck should be pre-washed before machine washing.

When an automatic washing station is used to wash the vehicle, fold down the side mirrors without forgetting the forward view mirror (1), so that they are not damaged.

Do not forget to fold up the front mirror and other mirrors again when washing is finished.



Washing the chassis

Both chassis and cab should be washed as soon as they are dirty.

Be particularly careful with high-pressure washing of axles, joints and other moving parts where water and dirt can be forced in. Avoid flushing away lubricant. Should this still happen, make sure you re-lubricate the components.

Washing detergent: avoid using strong alkaline agents (pH >12). Do not wash the vehicle in direct sunlight. Rinse with plenty of cold water before chemicals are applied if the temperature is above 30 °C. Wash small areas and then rinse clean so that long exposure times or drying chemicals are avoided. Always rinse with plenty of water after using washing detergent.



Never spray water directly onto sealings, gaskets, electrical cables or contacts.



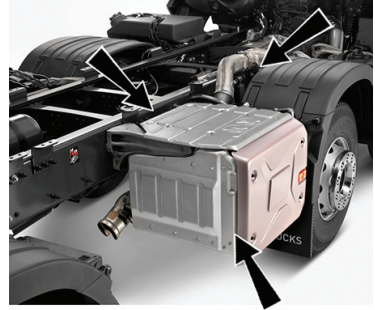
TO AVOID FIRE HAZARDS, KEEP THE AREA AROUND THE PARTICLE FILTERS CLEAN.



The particle filters and exhaust pipes can be very hot. Take care to avoid burns.

It is very important to clean the area around the exhaust system. Carefully clean all areas where impurities may build up.

In some cases, fairings may make access difficult. Pay careful attention to these areas.



Cleaning

Cleaning around the exhaust system is very important. Remember to clean all areas where dirt can accumulate.

In certain cases, bodywork may make it difficult to clean hot areas. Remember that cleaning can be carried out from the wheel housing and from underneath if access from above is difficult.

Keep the area around hot components clean.

After washing

After washing the truck should be lubricated. Test the brakes immediately after washing.

Keep the engine clean. Wash off any oil or diesel spillage. Use hot water for cleaning the engine and use high-pressure washing with caution. Avoid spraying water on the alternator, starter motor and other electrical components. If degreaser is used then the drive belts must be protected.

Polishing and waxing

Maintaining the truck's paintwork in good condition requires that it is waxed regularly. The wax adds shine and helps to protect against corrosion, UV radiation, acid rain and other damaging precipitation. You will have a truck that is easier to keep clean; you save the environment and maintain the value of the truck.

Painted surfaces

Over time the cab's paint may appear slightly dull. Delay this process by regularly waxing the cab. If the cab paint deteriorates then use a mild form of polishing agent. Consider the recommendations from the manufacturer of the products as well as the following general rules. First wash the truck in accordance with the above and allow it to dry. Then use a polishing agent or deep cleaning agent with only a small amount of abrasive components. Wax with a liquid wax. Only use clean cloths/rags, etc. Work over the paint surface applying moderate pressure.

Chrome plated parts

First wash the chrome with the same agent used for the rest of the cab. Use concentrated washer liquid to remove any film. The chrome can then be waxed with the same wax as the rest of the cab. Never use cleaning agents containing abrasives on chrome parts.

Steel rims, maintenance

Steel wheel rims are often exposed to different types of contaminants, such as road dirt, oil, asphalt, tar and brake dust. Regular maintenance is required in order to protect the wheel rims from discolouration, corrosion and unnecessary wear. A protecting wax is used for additional protection, for example, when driving on salted roads, in slush or in coastal environments.

Damage to the wheel rim's paint must be remedied immediately to prevent corrosion.

Clean the wheel rims regularly. First rinse with water, preferably use high-pressure washing. Use a brush or sponge to clean the wheel rim.

For stubborn dirt, an alkaline cleaning agent (pH>7) may be used.

Lightweight steel rims

Your truck is equipped with wheel hubs that are not compatible with so-called lightweight steel rims. Do not use this rim type.

Cab, interior cleaning

To maintain the condition of the interior and a good work environment you should clean the inside of the truck regularly. A well-maintained interior also helps to maintain the value of the vehicle. Remember that stains are always a lot easier to remove immediately, before they have had time to dry out.

Textiles

First vacuum clean to remove loose dirt. Then use a foam cleaning agent to lift away remaining dirt. Avoid scrubbing with hard brushes. When all of the textile surfaces are treated, let them dry overnight. Vacuum clean thoroughly to remove the dry foam and remaining dirt.

Vehicle cleaning

For the seats, beds and textile mats, water and a synthetic washing agent can be used. However, never use water or water-based cleaning agents on the headlining and wall panels.

Leather

Vacuum clean. Use special cleaners for leather upholstery.

Your vehicle is equipped with a leather steering wheel, we recommend that you take care to:

- Avoid contact with harsh materials (solvent, hydro-alcoholic gel, concrete, hydrocarbons, chemical products...).
- Avoid contact with water.

Leather is an organic material. Take care of it to avoid deterioration.

- Regularly clean the steering wheel with a specialized product.
- Condition the leather with a leather maintenance product recommended by RENAULT TRUCKS.
- Remove excess product with a dry cloth.

Vinyl

Water and a synthetic washing agent can be used.

Headlining and wall panels

Never use water or water-based cleaning agents.

Instrument panels and door panels

Use soapy water.

Seat belt

Water and a synthetic washing agent can be used.

Floor mats and engine cover upholstery

Vacuum clean or sweep clean. Wash with water from time to time, in particular during winter.

Displays

The information displays have protective plastic screens. Cleaning must be carried out using a vacuum cleaner. Wiping off with a cloth may scratch the surface.

Instruments

The instrument has protective plastic screens. Clean carefully use a vacuum cleaner to prevent scratches.

Remove spots on the glass as soon as possible using a clean or new microfibre cloth and warm water.



Do not use washer fluid or other alcohol based cleaning agent on the instrument panel.



All alcohol-based, petroleum-based or trichlorethylene products should be avoided. The use of such products would risk damaging the trim and other materials.

Treat stains as quickly as possible!

Stains on textiles

Remove particles not stuck to the stain. Absorb as much as possible with clean cloths. Treat the stain from the outside in and towards the centre of the stain using a removal product. Remove the part of the stain that has dissolved by wiping it. Continue until the whole stain has disappeared.

Be very careful with the quantity of remover: the stain might spread.

Stains on leather

Use warm, mild soapy water. Never scrape or rub. Never use strong solvents such as petrol, white spirit or alcohol.

Stains on vinyl

Never scrape or rub. Never use strong solvents such as petrol, white spirit or alcohol.



Breakdown, quick fixes

Switching to hibernation mode

When parking the vehicle for more than one day or if you need to transport it by ferry, train or heavy transport, we recommend that you switch it to hibernation mode.



The vehicle will not monitor battery temperature in hibernation mode, as this risks damaging them.

Before putting the vehicle into hibernation mode, make sure it is parked away from extreme heat or cold.

- Press the Start and Stop button to switch the vehicle to stop mode.
- Give a short press on the hazard warning lights button (2).
- Immediately after releasing the hazard warning lights button, press it again and keep it pressed down for at least 5 seconds.
- Wait for at least 30 seconds.



You can check that the vehicle has gone into hibernation mode by opening the doors: the lights on the steps should remain unlit.

Exiting hibernation mode

With the key in the cab, switch the vehicle to ignition mode using the START/STOP button, see START AND STOP button operation page 188.

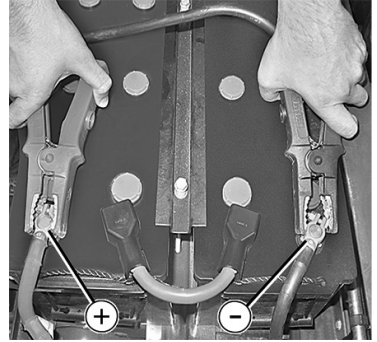
Starting the vehicle with external assistance

If the truck's batteries have been fully discharged, the truck may need electrical starting assistance from another vehicle or other batteries.

In the event of non-starting using the vehicle accumulator batteries, an external current source can be used (battery trolley or another vehicle).

Procedure:

- Set the vehicle into low energy consumption mode.
- Connect starter adapter to a battery trolley or to another vehicle using the extension piece provided.
- Exit the vehicle from low consumption mode using the remote control or engage the master switch.
- Actuate the starter.
- Keep the engine at an engine speed of **1300 rpm** for approximately **5 minutes**.
- Switch on the dipped beam headlights before returning the engine to idle speed.
- Let the engine idle for 1 minute.
- Disconnect starter adapted from the battery trolley or the other vehicle.
- Switch off the headlights.



The use of a power charger to aid starting is forbidden (damage to electronic systems).

For this operation, contact a RENAULT TRUCKS garage.

Location of the jack and tool kit

To help you face an unexpected situation, your vehicle is fitted with a light tool kit. Check regularly that all the tools are present and in good condition.

Cab exterior locker

Opening

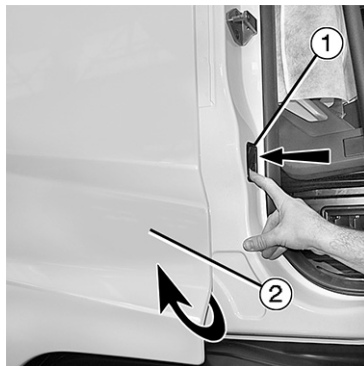
Open the passenger door.

Press control (1) to unlock the door. Lift the door (2).

A light comes on when the door opens.

Closing

Push the door (2). Locking is automatic.



Storing tools in the locker

Tool kit:

- Hexagon wrench, 6 millimetres.
- Cab lift control bar, jack and wheel wrench handle.
- Wheel wrench.
- Tyre pressure extension pipe.
- Tyre pressure adapter.
- Adjustable wrench.
- Clamps.



Jack.

Advance warning triangle(s).

Towing yoke.

Replacing a wheel

In the event of a puncture, you must use a spare wheel.

Be careful, there are certain risks involved in changing a wheel. Consult the chapter on changing a wheel or, if in doubt, call the nearest service point.

When you handle the spare wheel or the wheel to be changed, be careful and anticipate the risk of the wheel falling at each stage.

Stop the vehicle in a suitable place, without causing a traffic disruption, so that you can move around the vehicle without danger for yourself or others.

The ground must be flat and stable.

Stop the engine.

Activate the parking brake. Refer to the "Parking brake" chapter.

Switch on the hazard warning lights.

Switch off the ignition.

To locate the safety vest, warning triangle, hazard lamp, tool kit and jack, refer to "Location of jack and tool kit".

Put on the safety vest before going to position the safety triangle and the hazard lamp at a sufficient distance away.

Chock the vehicle. Refer to the "Wheel chocks" chapter.

If necessary, uncouple the trailer. Refer to the "Turntable fifth wheel" chapter.

To retrieve the spare wheel, refer to the chapter "Spare wheel retainer".

Check that the spare wheel is in a good condition.

Place the jack under the vehicle below a jacking point. Use the recommended jacking points. Refer to the chapter "Use of the jack".

With the wheel still on the ground, loosen the wheel nuts without removing them.

Release the brakes on the wheel that is to be replaced, otherwise there is risk that the brake drums may become oval.



UNCONTROLLED LOWERING OF THE VEHICLE COULD RESULT IN SERIOUS MATERIAL DAMAGE, SERIOUS INJURY OR EVEN DEATH.

- NEVER MOVE BELOW THE VEHICLE WHEN IT IS HELD UP ON A JACK.
- PLACE THE JACK ON A FIRM, HORIZONTAL SURFACE WITH GOOD ADHESION.
- THE JACK MUST ONLY BE USED TO LIFT THE VEHICLE FOR A BRIEF TEMPORARY PERIOD.
- THE JACK MAY LOWER OR COLLAPSE IF THE VEHICLE IS SUPPORTED FOR TOO LONG OR IF THE VEHICLE MOVES.
- THE JACK MUST ONLY BE POSITIONED AT THE RECOMMENDED JACKING POINTS.
- ONLY USE THE TOOLS PROVIDED IN THE RENAULT TRUCKS TOOL KIT.
- NEVER START THE VEHICLE, MOVE THE BODY OR CLIMB ONTO OR INTO THE VEHICLE FOR AS LONG AS IT IS LIFTED.

Using the jack provided with the tool kit, lift the vehicle so that the wheel to be replaced, free from load, is no longer in contact with the ground.

Completely remove the wheel nuts, then pull the wheel off.



Be careful not to damage the threads of the wheel studs when removing/fitting the wheel.

STOP

BE AWARE OF THE RISK OF THE WHEEL FALLING OFF AND OF THE HINDRANCE IT COULD CAUSE ON THE CARRIAGEWAY.

STOP

FOR YOUR SAFETY AND THAT OF OTHERS, USE ONLY THE TOOLS AND WHEELS SUPPLIED BY RENAULT TRUCKS THAT ARE RECOMMENDED FOR YOUR VEHICLE.

Carefully position the new wheel, taking care not to damage the studs. Refer to the chapter "Tyre load index and pressures", section "wheel and tyre".

Tighten the wheel. Refer to the "Tightening of wheels" chapter.

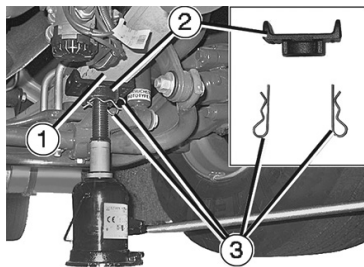
Check the tyre pressures.

Using the jack

Front jacking points (1)

It is essential to use adapter (2), attaching it to the jack head using the two pins (3).

Position the jack as close as possible to the axle.

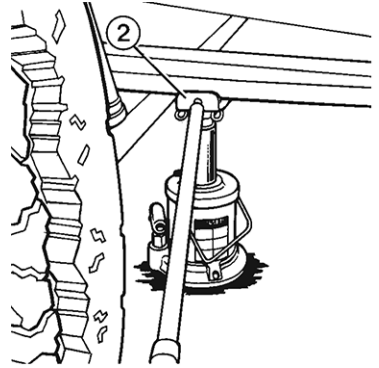


STOP

- NEVER MOVE BELOW THE VEHICLE WHEN IT IS HELD UP ON A JACK!
- PLACE THE JACK ON A FIRM, HORIZONTAL SURFACE WITH GOOD ADHESION.
- FIRMLY CHOCK THE WHEELS THAT REMAIN ON THE GROUND.
- RELEASE THE BRAKES ON THE WHEEL TO BE REPLACED.

Removing the jack

If necessary, use the jack bar to release adapter (2).

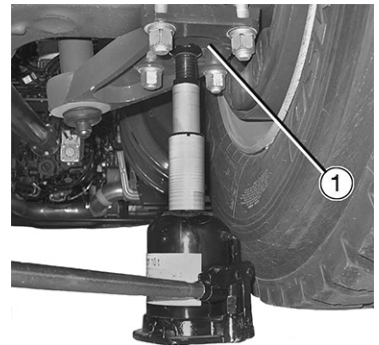


Rear jacking points

Rear jacking points (1)



Chock the front road wheels.



Towing

If the truck can no longer be controlled, it might be necessary to tow it to a workshop. Certain corrective measures must be made first so as not to damage the vehicle, and to avoid an accident.

Securing the vehicle for towing

Make sure that all the safety conditions have been applied before working on the vehicle.

It is very hazardous to walk around a vehicle that has stopped on a busy road. Do not take needless risks.

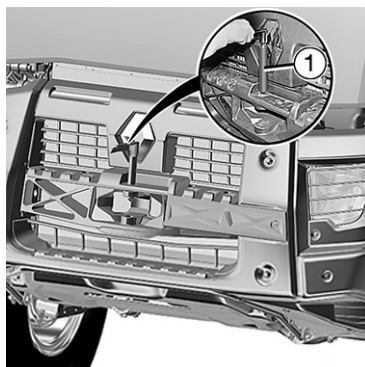
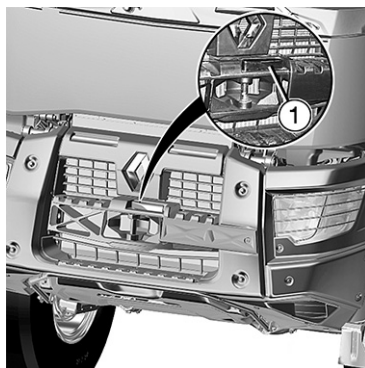
To do this, remember to:

- Put the gearbox in neutral.

- Activate the parking brake.
- Activate the hazard warning lights.
- Wear your safety vest.
- Position the hazard triangle at least 200 metres behind the vehicle.

Front towing yoke

Turn the handle of the towing eye (1) to unlock it. Raise it to engage a tow bar.





Eye (1) mounted on the front cross member is designed for towing on the road under normal conditions.

Releasing a vehicle that is stuck with its drive wheels spinning in soft ground or mud puts a much more significant strain on the yoke (1).

In this case, use suitable lifting equipment.

If necessary, an observer on the ground will guide the manoeuvre, possibly using a radio transmitter.

Towing should be carried out with the engine running.

If the vehicle engine is faulty:

- Neutralise the brake cylinders manually if there is no air pressure.
- The steering is heavy because the power-assisted steering system is not operational.
- Shift the gearbox into neutral.
- Remove the transmission.
- Use the towing eye.



To avoid damage to the gearbox, the drive shaft must be removed when towing with the drive wheels on the ground.



Chock the vehicle wheels.

Release the parking brake

If you cannot start the truck's engine or if there is an electrical fault, the parking brake must be released in order for it to be possible to move the truck.

There are three ways to release the parking brake.

- In the event of an engine fault, fill the pneumatic system with air from e.g. another truck.
- In the event of an electrical fault, release manually.

- Mechanical unloading of the parking brake springs.

There are three ways to release the parking brake.

- In the event of engine failure, it is possible to fill the air system with air from another truck. You will then be able to use the parking brake control in the cab.
- In the event of an electrical fault, you can manually release the parking brake by injecting air into the air circuit, as explained in this section, see Releasing the parking brake in the event of an electrical fault page 322.
- By mechanically releasing the springs on the parking brake.



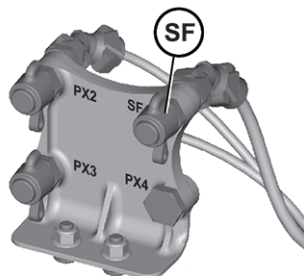
Chock the vehicle wheels.

Fill air into the pneumatic system

The bracket for filling air is located at the rear or on the left of the chassis.

When filling air from e.g. another truck, the test nipple marked with SF (system fill) on the bracket must always be used. Then the incoming air is dried and moisture does not enter the system.

Other connectors marked with PX2, PX3, PX4 are test connections for brake pressure on the rear axles.



The connector for filling compressed air is marked with SF.

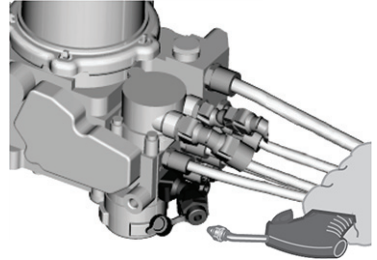
Releasing the parking brake in the event of an electrical fault

For some electrical faults, the electrically operated parking brake is not released. If there is compressed air in the system, then it can be released manually.



If this instruction is not followed, some error codes can be set.

1. Put the vehicle in park mode, see the START/ STOP button , see START AND STOP button operation page 188 section.
2. Wait for 2 minutes until all electronic control units are deactivated.
3. Connect the external air supply. For example, use a blow gun on the nipple fitting as shown in the illustration.



4. Fill the air circuit to a maximum of 8.5 bar. (If there is too much pressure, an error message will be displayed once the vehicle has been restarted).
 5. Disconnect the external air supply. (In the event of a leak during towing, it is recommended to leave the nipple connected to the air supply to avoid unintentionally applying the parking brake).
 6. The parking brake is released.
- The parking brake can be applied again by evacuating the air system via the same nipple.

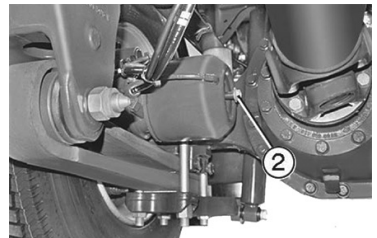


If in doubt, please consult your local Renault Trucks dealer.

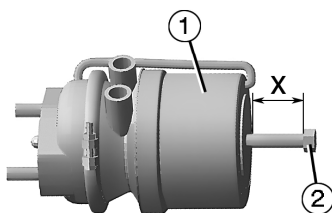
Releasing the parking brake mechanically

Depending on your vehicle's equipment

In the event of accidental loss of pressure, proceed as follows to move the vehicle (towing): using a 24 mm wrench, loosen bolt (2) on each brake cylinder until the road wheels are free.



Bolt protrusion length X (2) differs (15 mm or 65 mm) depending on the type of brake cylinder (1).

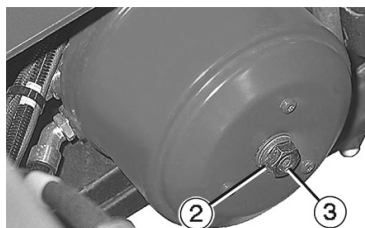


Release the parking brake

In the event of accidental loss of pressure, proceed as follows to move the vehicle (towing): using a 24 mm wrench, turn bolt (2) on each brake cylinder anti-clockwise until the wheels are free - red mark (3) should be exposed.

Depending on your vehicle's equipment

Recommissioning: pressurise the circuit with a pressure of approximately 5 bar. Offer up bolt (2) into contact with the cylinder and tighten it to a torque of 75 Nm or turn it clockwise and tighten it to a torque of 75 Nm; red marking (3) should be obscured.



*A nut tightener must **not** be used because the cylinder can be damaged.*

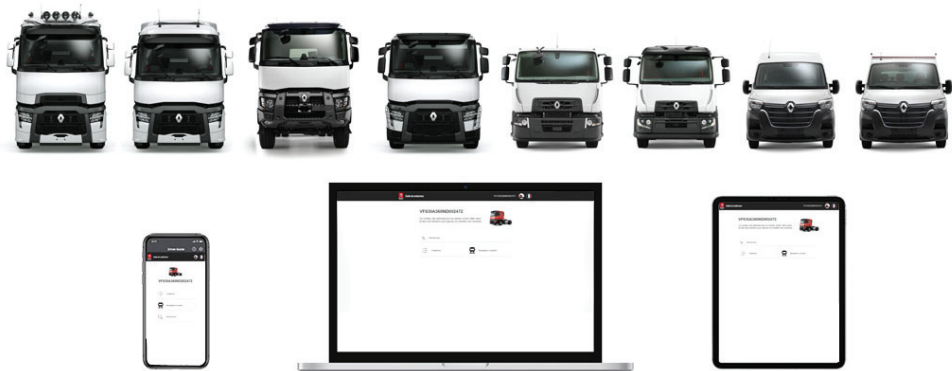


Always fill air in the parking brake tanks, when available, and untighten the parking brake to make it easier to unscrew the nut. This protects the brake cylinder from unnecessary wear.



Some trucks have parking brake cylinders on both the front and rear axle.

Access to the Driver Guide



To use the Driver Guide:

- Go to:
<https://driverguide.renault-trucks.com/>
- or
- scan the QR code to find the driver guide app.
- or
- search for "...Renault Trucks Driver Guide" in your app download site.



You will find all the necessary information relevant to your specific Renault Trucks vehicle.

We reserve the right to make changes to this publication in the interests of constantly improving our output. The digital version will always contain the most up-to-date information.



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